



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

September 1, 2020

Jamie Venable  
Agent for Clorox Professional Products Company  
c/o Science & Regulatory Consultant, Inc  
201 W Van Buren Street  
Columbia City, IN 46725

Subject: PRIA Label Amendment – To add claim against SARS-CoV-2.  
Product Name: PPD Puma  
EPA Registration Number: 67619-32  
Application Date: June 2, 2020  
Decision Number: 563888

Dear Mr. Venable:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Karen M. Leavy by phone at (703)-308-6237, or via email at [Leavy.Karen@epa.gov](mailto:Leavy.Karen@epa.gov).

Sincerely,

The text here

Jacqueline Hardy  
Product Manager 34  
Regulatory Management Branch II  
Antimicrobials Division

Enclosure: Stamped Label

**Label identification**

PPD Puma, EPA Reg. No. 67619-32

RC135077

14:38 8/30/20

**Formatting notes** (applicable for all claims)

**Now[!]** -and/or- **New[ly][!]** -and/or- **Improved[!]** may be added anywhere to a claim and will only for the first 6 months of product on shelf. Optional text may be placed anywhere on the label -and/or- container.

**Bold, italicized text** is information for the reader and is not part of the label.

Bracketed information is optional text.

All footnotes are on the last page, unless they are part of EPA's mandated text.

The word "and" may be substituted with "&". Plural words may be used in their singular form or singular words may be used in their plural form unless otherwise specified in 40 CFR.

All directions may be written in numbered form or in paragraph form.

All use surfaces and/or use sites on the label may be listed in conjunction with an image of the use surface and/or use site

Highlighted text is new. Strike-through text means removed.

# PPD Puma

**KEEP OUT OF REACH OF CHILDREN  
DANGER: CORROSIVE.**

**FIRST AID:**

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. **IF ON**

**SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

**IN EITHER CASE, CALL A POISON CONTROL CENTER OR DOCTOR IMMEDIATELY FOR TREATMENT ADVICE.**

See back panel for additional precautionary labeling.

Active Ingredient:

Sodium Hypochlorite ..... 8.25%

Other Ingredients: ..... 91.75%

Total: ..... 100.00%

(Yields 7.85% available chlorine)

Contains no phosphorus -or- phosphates[.]

**NET CONTENTS** \_\_\_\_\_

**ACCEPTED**

9/01/2020

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 67619-32

## **PRECAUTIONARY STATEMENTS: Hazards to humans and domestic animals.**

### **DANGER: CORROSIVE.**

Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear safety glasses -or- protective eyewear and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet -or- restroom. Avoid breathing vapors and use only in a well ventilated area. [Remove and wash contaminated clothing before reuse.]

[Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.]

**FIRST AID: IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **IF SWALLOWED:** Have person sip a glassful of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

Call a poison control center or doctor immediately for further treatment advice. Have product container or label with you when calling a poison control center or doctor, or going for treatment. Clorox Information Line: 1-800-292-2200.

### ***For containers 5 gallons and greater (and not labeled for treatment of pools, spas, hot tubs, or fountains)***

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### ***For use with 4 to 6 gallon buckets/containers as defined in the ASTM standard; see Child Hazard Drowning Pictogram text below.***

**NOTICE:** CHILDREN CAN FALL INTO BUCKET AND DROWN. KEEP CHILDREN AWAY FROM BUCKET WITH EVEN A SMALL AMOUNT OF WATER.



### ***For containers less than 5 gallons:***

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish, aquatic invertebrates, oysters and shrimp.

**PHYSICAL OR CHEMICAL HAZARDS: STRONG OXIDIZING AGENT:** Mix only with water according to label directions. Mixing this product with chemicals (e.g., ammonia or acids) or organic matter (e.g., urine or feces) in a manner inconsistent with labeling directions may release hazardous gases irritating to eyes, lungs, and mucous membranes.

[Prolonged contact with metal may cause pitting or discoloration.]

### ***For labels with drinking water uses:***

The following practices help to minimize degradant formation in drinking water disinfection:

- It is recommended to minimize storage time.
- It is recommended that the pH of the solution be in the range of 11-13.
- It is recommended to minimize sunlight exposure by storing in opaque containers and/or in a covered area. Solutions should be stored at lower temperatures. Every 5 °C reduction in storage temperature will reduce degradant formation by a factor of two.
- Dilution significantly reduces degradant formation. For products with higher concentrations, it is recommended to dilute hypochlorite solutions with cool, softened water upon delivery, if practical for the application.

# PPD PUMA (EPA Reg. No. 67619-32)

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## Company Information

### Satisfaction Guaranteed

Satisfaction Guaranteed! At Clorox, we have prided ourselves in making consistent quality bleach for [more than -or- over] 100 years, and we are dedicated to ensuring your total satisfaction with our product. If you are not completely satisfied, please call the number below.

“Clorox” is a registered trademark of The Clorox Company.

Commercial Solutions -and/or- Clorox® Healthcare -and/or- CloroxPro[® -or- ™] is -or- are [a] registered trademark of The Clorox Company -or- Clorox Professional Product Company.

Bottle shape is a registered trademark of the Clorox Company.

For more [product -and/or- ingredient] information, visit [IngredientsInside.com](http://IngredientsInside.com) -or- [www.smartlabel.org](http://www.smartlabel.org).

Visit us at [www.cloroxpro\[fessional\].com](http://www.cloroxpro[fessional].com) -or- [cloroxhealthcare.com](http://cloroxhealthcare.com)

For a Spanish translation of product directions -or- instructions -or- information, visit [www.cloroxpro\[fessional\].com](http://www.cloroxpro[fessional].com) -or- [www.cloroxhealthcare.com](http://www.cloroxhealthcare.com).

For [M]SDS information, please visit [www.cloroxpro\[fessional\].com](http://www.cloroxpro[fessional].com) -or- [cloroxhealthcare.com](http://cloroxhealthcare.com).

Questions [? -or- or] Comments? or

Call [Toll Free] (888) 797-7225 -or- (800) 227-1860 -or- 1-800-292-2200 -or- *insert toll free number*.

Write us at:

Clorox Consumer Services

P.O. Box 24305

Oakland, CA 94623

Mfd. for & © YYYY Clorox Professional Products Company

1221 Broadway, Oakland, CA 94612

Made in [the] U.S.A. [of global components -and/or- ingredients.]

EPA Reg. No. 67619-32

EPA Est. No. 5813-CA-3 (A8), CA-6 (TPP), GA-1 (A4), GA-2 (VG),

MD-2 (E6), TX-1 (A5); 71681-GA-1 (JQ), IL-1 (03), IL-2 (24)

Beginning of batch code indicates Est. No.

### *For Puerto Rico only*

EPA Est. No. 5813-PR-1

Patents: [www.thecloroxcompany.com/patents/](http://www.thecloroxcompany.com/patents/)

### **NSF registration**

**valid for Clorox Commercial Solutions® Clorox®  
Germicidal Bleach 157943 -or- valid for CloroxPro™  
Clorox® Germicidal Bleach 160022**



Product Category Codes: 3D, B1, B2, D1, D2, G4, Q4

Product Category Definitions:

3D-Substances for washing fruits and vegetables

B1-Laundry products – food contact

B2-Laundry products – nonfood contact

D1-Antimicrobial agents always requiring a rinse

D2-Antimicrobial agents not requiring rinse

G4-Chlorine products

Q4-Chlorine sanitizers

### Optional Graphics



## DIRECTIONS FOR USE

[WHERE TO USE: -or- WHERE DO I USE **THIS PRODUCT?**]

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

[Always refer to manufacturer's care instructions before using on equipment -or- devices.]

[For visible soil, preclean surface before disinfecting.]

[Use the Dilution Table to make the desired dilution]. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.]

[This product can be used on hard, nonporous surfaces in commercial -and/or- institutional -and/or- hospital (including kitchens -and/or- bathrooms -and/or- nurseries -and/or- sick rooms -and/or- laundry rooms) -and/or- eating establishments -and/or- pet kennels -and/or- veterinary premises.]

***This statement only to be used on institutional labels with medical use sites and/or bloodborne pathogens.***

***This product*** is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semicritical medical devices prior to sterilization or high level disinfection.

	<b>[Amount [of]] this product -or- bleach</b>	<b>[Amount [of]] water</b>	<b>Instructions</b>
<b>[For] Laundry [Use] [Bleaching -and/or- Whitening -and/or- Stain Removal] -or- To Bleach -and/or- Whiten -and/or- Remove Stains</b>			
Bleachable Fabrics	1/2 cup [4 [fl] oz] or Max[imum] line -or- level [in dispenser]  [1 cup] [8 [fl] oz]	Standard Machine or H[igh] E[fficiency] Machine  [Extra Large Washer -or- Heavily Stained -or- Soiled Load]	[1.] Sort laundry by color. [2.] Add detergent. [3.] Fill bleach to max[imum] line -or- level [in dispenser] or add 1/2 cup bleach to wash water. [4.] Add clothes [and start wash].  [For best results, dilute bleach with a quart of water and add to wash 5 min[utes] after the wash cycle has begun.] [Avoid bleaching wool, silk, mohair, leather, spandex and non-fast colors.]
<b>[For][Laundry, Cleaning and] Disinfecting -or- To Disinfect</b>			
Laundry -or- Bleachable Fabrics	1 cup [8 [fl] oz]	Standard Machine	[1.] Sort laundry by color. [2.] Add detergent. [3.] Add 1 cup bleach to wash water. [4.] Add clothes or fabrics [and start wash]. Ensure contact with bleach [solution] for 10 min[utes]. -or- Follow the laundry use directions using 1 cup of this product. Ensure contact with bleach [solution] for 10 min[utes].  [Avoid bleaching wool, silk, mohair, leather, spandex and non-fast colors. Use [with] a detergent.]
<b>[For] [Laundry, Cleaning and] Sanitizing -or- To Sanitize</b>			
Laundry -or- Bleachable Fabrics	1/2 cup [4 [fl] oz]  1/2 cup [4 [fl] oz]	Standard Machine  H[igh] E[fficiency] Machine	[1.] Sort laundry by color. [2.] Add detergent. [3.] Fill bleach to max[imum] line -or- level [in dispenser] or add 1/2 cup bleach to wash water. [4.] Add clothes [and start wash]. Ensure contact with bleach [solution] for 10 min[utes]. -or- Follow the laundry use directions using 1/2 cup of this product. Ensure contact with bleach [solution] for 10 min[utes].  [Avoid bleaching wool, silk, mohair, leather, spandex and non-fast colors. Use [with] a detergent.]

	<b>[Amount [of]] this product -or- bleach</b>	<b>[Amount [of]] water</b>	<b>Instructions</b>
<b>[For] Sanitizing -or- To Sanitize Food Contact Surfaces [Against <i>Insert Organism(s) from List 4</i>]</b>			
Work Surfaces	2 tsp -or- teaspoons [1/3 [fl] oz]	1 Gal[lon]	Wash, rinse, wipe surface area with bleach solution for [at least] 2 min[utes], let air dry. -or- To sanitize work surfaces, wash, rinse and wipe surface area with a solution of 2 teaspoons -or- tsp of bleach per 1 gal[lon] of water for [at least] 2 min[utes]. Let air dry.
Dishes, Glassware, Utensils	2 tsp -or- teaspoons [1/3 [fl] oz]	1 Gal[lon]	Wash and rinse. [After washing,] soak for [at least] 2 min[utes] in bleach solution, [drain] and [let] air dry. -or- To sanitize dishes, glassware, and utensils, wash and rinse. [After washing,] soak for [at least] 2 min[utes] in a solution of 2 teaspoons -or- tsp of bleach per 1 gal[lon] of water, [drain] and air dry.
<b>[For] Sanitizing -or- To Sanitize Food Contact Surfaces [Against <i>Insert Organism(s) from List 4</i>]</b>			
Refrigerator <sup>26</sup> , Freezers <sup>26</sup>	2 tsp-or- teaspoons [1/3 [fl] oz]	1 Gal[lon]	Remove food [from refrigerator -and/or- freezer]. Wash, rinse, wipe surface area with bleach solution for [at least] 2 min[utes]. Let air dry.
Plastic Cutting Boards	2 tsp-or- teaspoons [1/3 [fl] oz]	1 Gal[lon]	Wash and rinse. [After washing,] soak for [at least] 2 min[utes] in bleach solution, let air dry.
Sealed Wooden Cutting Boards	2 Tbsp -or- Tablespoons [1 [fl] oz]	1 Gal[lon]	Wash, wipe, or rinse with detergent and water, then apply sanitizing -or- bleach solution. Allow surface to remain visibly wet for -or- Let stand 2 min[utes]. Rinse with a solution of 2 teaspoons -or- tsp of this product per gal[lon] of water. Do not rinse or soak equipment overnight.
Baby Bottles	2 tsp-or- teaspoons [1/3 [fl] oz]	1 Gal[lon]	Wash and rinse. [After washing,] soak for [at least] 2 min[utes] in bleach solution, let air dry.
Pet [Food -and/or- Water] Bowls	2 tsp -or- teaspoons [1/3 [fl] oz]	1 Gal[lon]	Wash and rinse. [After washing,] soak for [at least] 2 min[utes] in bleach solution, let air dry.
<b>[For] Disinfecting -or- To Disinfect Hard, Nonporous Surfaces</b>			
Floors, Walls, Vinyl, Glazed Tiles -and/or- <b><i>Insert surface(s) from Table 1</i></b> -and/or- <b><i>insert surface material(s) from Table 3</i></b>	1/2 cup [4 [fl] oz]	1 Gal[lon]	[Pre-]wash surface, [mop or] wipe with bleach solution[. Allow solution to contact surface] for [at least] 5 min[utes]. Rinse well and air dry. -or- To disinfect floors, walls, vinyl, and glazed tiles, pre-wash surface, then mop or wipe with a solution of 1/2 cup of bleach per 1 gal[lon] of water. Allow solution to contact surface for [at least] 5 min[utes]. Rinse well and air dry. <b><i>Include the following statement if any of the organisms are listed on the label: Mycobacterium bovis, Canine parvovirus and Feline panleukopenia Virus -or- Feline parvovirus, allow surface to remain visibly wet -or- let stand for -or- contact time is 10 min[utes].</i></b>
Bathtubs, Showers [ & Kitchen] Sinks	1/2 cup [4 [fl] oz]	1 Gal[lon]	[Pre-]wash surface [and] wipe with bleach solution[. Allow solution to contact surface] for [at least] 5 min[utes]. Rinse well and air dry.
Nonporous Baby Toys [ & Furniture]	1/2 cup [4 [fl] oz]	1 Gal[lon]	[Pre-]wash surface, soak or wipe with bleach solution[. Allow solution to contact surface] for [at least] 5 min[utes]. Rinse well and air dry.
Nonporous pet toys -and/or- accessories -or- pet areas	1/2 cup [4 [fl] oz]	1 Gal[lon]	[Pre-]wash surface, soak or wipe with bleach solution[. Allow solution to contact surface] for [at least] 5 min[utes]. Rinse well and air dry.
Toilet Bowl	1/2 cup [4 [fl] oz]	Toilet Bowl	Flush toilet. Pour this product into bowl. Brush bowl, making sure to get under the rim, and let solution stand for 5 min[utes] and flush again. -or- To disinfect a toilet bowl, flush the toilet. Pour 1/2 cup of bleach into the bowl. Brush bowl, making sure to get under the rim, and let solution stand for 5 min[utes] and flush again.

	[Amount [of]] this product -or- bleach	[Amount [of]] water	Instructions
<b>[For] Sanitizing -or- To Sanitize Non-Food Contact Surfaces</b>			
Garbage Cans	1/2 cup [4 [fl] oz]	1 Gal[lon]	After washing and rinsing, brush inside with bleach solution. Allow surface to remain visibly wet -or- Let stand for 5 min[utes] before rinsing. Let drain.
<b>[For] Mold Stain and Mildew Stain Removal -or- To Remove Mold Stains and Mildew Stains -or- [For] Mold and Mildew Removal -or- To Remove Mold and Mildew</b>			
Hard, nonporous Surfaces	3/4 cup [6 [fl] oz]	1 Gal[lon]	[Pre-]wash surface [and] wipe with bleach solution[. Allow solution to contact surface] for at least 5 min[utes]. Rinse well and air dry.
	1/2 cup [4 [fl] oz]	1 Gal[lon]	-or- [Pre-]wash surface [and] wipe with bleach solution[. Allow solution to contact surface] for at least 10 min[utes]. Rinse well and air dry.
<b>[For] Deodorizing -or- To Deodorize</b>			
Drains	1/2 cup [4 [fl] oz]	—	Flush drains. Pour into drain. Flush with hot water.
<b>[For] Bleaching -and/or- Whitening -or- To Bleach -and/or- Whiten</b>			
Wooden Surfaces	1/2 cup [4 [fl] oz]	1 Gal[lon]	Apply for [at least] 2 min[utes], rinse [and air dry].
<b>[For] Hospital -and/or- Healthcare Use</b>			
Hospital Disinfection -or- To Kill Pseudomonas aeruginosa -or- For Killing Pseudomonas aeruginosa	1/2 cup [4 [fl] oz]	1 Gal[lon]	[Pre-]wash surface -or- item, then apply disinfecting or bleach solution. Allow surface to remain visibly wet for -or- Let stand 5 min[utes]. Rinse [thoroughly -or- well] and air dry. -or- Follow Disinfection Directions for use. Allow surface to remain visibly wet for -or- Let stand 5 min[utes].
To Kill Clostridium difficile <sup>Y</sup> [(C. diff.)] [spores] -or- For Killing Clostridium difficile <sup>Y</sup> [(C. diff.)] [spores]	1 part	9 parts	Clean hard, nonporous surfaces by removing visible soil [(loose dirt, debris, blood/bodily fluids, etc.)]. Apply 1:10 solution (~7,800 ppm available chlorine) and allow surface to remain visibly wet -or- let stand for 3 min[utes]. Rinse and air dry. Prepare fresh solution daily.
To Kill Mycobacterium bovis - [(BCG)], (TB) -or- [For] Killing TB -or- To Kill TB	1 part	9 parts	Preclean surface prior to disinfection. Add 1 part bleach to 9 parts water to achieve a 1:10 dilution (~7,800 ppm available chlorine) before use. Apply 1:10 solution and allow surface to remain visibly wet -or- let stand for 10 min[utes] at room temperature (19 °C -or- 66.2 °F) -or- (18 °C to 20°C -or- 64.4 °F to 68°F). Rinse and air dry. Prepare fresh solution daily.

[For additional directions for use, including Service Bulletins, visit [www.clorox.com/bleachuse](http://www.clorox.com/bleachuse).] **Only approved language from the most recently approved federal master label will be posted to the website.** For more tips -and/or- uses, visit [www.clorox.com](http://www.clorox.com).

<b>DILUTION TABLE: PPM</b> (Parts Per Million Available Chlorine). Degrades with age and exposure to sunlight and heat. Check the level of available chlorine with a test kit.		
1 1/2 tsp -or- teaspoons [of] this product	+ One -or- 1 Gal[lon] [of] Water	= 150 ppm
1/3 [fl] oz [of] this product [(2 tsp)]	+ One -or- 1 Gal[lon] [of] Water	= 200 ppm
4 [fl] oz [of] this product	+ One -or- 1 Gal[lon] [of] Water	= 2,400 ppm

## Laundry Use

-or- For Laundry: -or- For Bleachable Fabrics:

[For] Standard & H[igh] E[fficiency] Machines

[If uncertain about the dye colorfastness, test fabric by applying 1 drop of a solution made of 2 teaspoons -or- tsp of this product plus 1/3 cup water to hidden part of seam. Be sure to check all colors. After 1 min[ute], rinse and blot dry. No color change means the article can be safely bleached.]

[Avoid bleaching wool, silk, mohair, leather, spandex and non-fast colors.]

### Whitening -and/or- Stain Removal:

[Whitening -and/or- Stain Removal:]		
Dose -or- Load	Standard [Machine]	H[igh] E[fficiency] [Machine]
Normal -or- Regular	1/2 cup	Max[imum] line -or- level [in dispenser]
Heavy -or- Heavily Soiled -and/or- Stained	1 cup	Max[imum] line -or- level [in dispenser]

1. Sort laundry by color.
2. Add detergent.
3. Fill bleach to max[imum] line -or- level [in dispenser] or add ½ cup bleach to wash water.
4. Add clothes[, and start wash].

[For best laundry results, dilute 1/2 cup of this product in 1 quart of water. Add to wash 5 min[utes] after the wash cycle has begun.]

[For heavily soiled loads, add slightly more -or- up to 1 cup of this product [in a standard washer].]

[To handwash, pretreat stains and clean heavy soils, rinse to remove loose soil and fully soak each garment for 5 min[utes] in a solution of 3 Tablespoons -or- Tbsp of this product to 1 gal[lon] of cool water. Rinse and perform a regular wash following the laundry use directions.]

[For H[igh] E[fficiency] Machines, follow H[igh] E[fficiency] machine usage instructions.]

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### Disinfection:

To disinfect laundry: Add 1 cup of this product to a standard washer following the laundry use directions. Ensure contact with bleach [solution] for 10 min[utes].

-or-

To kill *insert organism(s) from List 2* in your laundry: Add 1 cup of this product to a standard washer following the laundry use directions. Ensure contact with bleach [solution] for 10 min[utes].

-or-

**For Use With *Insert Dispenser Name* Approved Dispensing System.** Installation and service should only be performed by a [*Company Name*] Laundry Expert.

**To Disinfect Laundry:** Add enough of this product to reach 275 ppm (parts per million) available chlorine. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Use a detergent. Ensure contact with bleach [solution] for 10 min[utes]. This product used according to the laundry use directions is effective against *Staphylococcus aureus* [(Staph)], *Pseudomonas aeruginosa* [(Pseudomonas)], *Klebsiella pneumoniae*, Hepatitis A Virus, Influenza Virus Type A2, Rhinovirus, and Rotavirus.

## Sanitization:

To sanitize laundry: Add 1/2 cup of this product to a standard or High Efficiency washer following the laundry use directions. Ensure contact with bleach solution for 10 minutes.

-or-

To kill 99.9% of bacteria -or- **insert organism(s) from List 1** in your laundry: Add 1/2 cup of this product to a standard washer following the laundry use directions. Ensure contact with bleach solution for 10 minutes.

-or-

**FOR USE WITH Insert Dispenser Name APPROVED DISPENSING SYSTEM. Installation and service should only be performed by a [Company Name] Laundry Expert.**

**To Sanitize Laundry:** Add enough of this product to reach 200 ppm (parts per million) available chlorine. [Use the Dilution Table to make the desired dilution]. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Use a detergent. Ensure contact with bleach solution for 10 minutes. This product used according to the laundry use directions is effective against Staphylococcus aureus, Pseudomonas aeruginosa, Klebsiella pneumoniae, and Methicillin-Resistant Staphylococcus aureus (MRSA).

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## High Efficiency Washing Machine Maintenance:

High Efficiency Washing machine manufacturers suggest that you must perform periodic machine maintenance up to once per week, to ensure that your High Efficiency washer remains clean and free from any soil build-ups that may cause malodors.

-or-

High Efficiency Washing machine manufacturers suggest that a periodic machine maintenance is performed up to once per week to prevent soil build-ups that may cause malodors. Some High Efficiency washers offer a special maintenance or wash-out or clean washer cycle. Check the use and care guide to see if your machine has one. If it does, follow the manufacturer's suggestions.

-or-

If your High Efficiency washer has a maintenance or wash-out or clean washer cycle, follow the manufacturer's recommendations. If your High Efficiency washer doesn't have a or an automated maintenance cycle, you may perform this function manually:

[Note:] Do not put laundry in the washer.]

1. Select the hot water setting. [If there is no hot water setting, then select a "white" or a "stain" cycle setting.]
2. Select the "extra rinse" option, if offered.
3. Add this product to the bleach dispenser. Fill to its or the maximum level.
4. Run the cycle through its completion.
5. If the High Efficiency washer does not have a second rinse option, manually select an additional rinse cycle to ensure that no bleach remains in your or the washer.
6. If your or the High Efficiency washer still has unpleasant odors, [you may need to] repeat steps 1 through 5 [as necessary].

-or-

1. Use hot water.
2. Select "extra rinse" option.
3. Add this product to the bleach dispenser. Fill to its or the maximum level.
4. Run the cycle.
5. Follow with extra rinse [to ensure that no bleach remains [in your washer] or is left behind].
6. Repeat steps 1-5 [as necessary] [if your High Efficiency machine still has unpleasant odors].

## Miscellaneous Commercial/Institutional Use

[DO NOT USE ON NON-STAINLESS STEEL, ALUMINUM, SILVER OR CHIPPED ENAMEL.]

DO NOT use this product full strength for cleaning surfaces. Always dilute strictly in accordance with the directions. For prolonged use, wear gloves.

For Use on Hard, Nonporous Surfaces *insert surface(s) from Table 1* -and/or- *insert surface material(s) from Table 3*

### Disinfection Directions for Use:

#### [For] Disinfecting:

-or-

To disinfect hard, nonporous surfaces -or- *insert surface(s) from Table 1* -and/or- *insert surface material(s) from Table 3*

Use 1/2 cup of this product per gal[lon] of water. [Pre]wash surface -or- item, then apply disinfecting -or- bleach solution. Allow surface to remain visibly wet for -or- Let stand 5 min[utes]. Rinse [thoroughly -or- well] and air dry.

-or-

1. [Pre]wash surface -or- item.
2. Mix 1/2 cup this product -or- bleach per 1 gal[lon] water.
3. Apply, allow surface to remain visibly wet for -or- let stand 5 min[utes].
4. Rinse, [and] air dry.

#### [For] Toilet Bowls -and/or- bidets:

Flush toilet -and/or- Bidet. Pour 1/2 cup of this product into bowl. Brush entire bowl including rim with a scrub brush or mop. Allow surface to remain visibly wet for -or- Let stand 5 min[utes] before flushing again.

#### [For] Potty Seats -or- Trainers:

Empty seat. Fill with 1/2 cup of this product per gal[lon] of water. Allow surface to remain visibly wet for -or- Let stand 5 min[utes]. Rinse and air dry.

#### [For] Litter Boxes:

Remove litter. Wash box in soap and water. Fill with 1/2 cup of this product per gal[lon] of water. Allow surface to remain visibly wet for -or- Let stand 5 min[utes]. Rinse and air dry.

#### [For] Mold and Mildew:

Use 3/4 cup of this product per gal[lon] of water. Wash, wipe, or rinse items with water, then apply disinfecting -or- bleach solution. Allow surface to remain visibly wet for -or- Let stand 5 min[utes]. Rinse and air dry.

-or-

Use 1/2 cup of this product per gal[lon] of water. Wash, wipe, or rinse items with water, then apply disinfecting -or- bleach solution. Allow surface to remain visibly wet for -or- Let stand 10 min[utes]. Rinse and air dry.

### ¥Special Label Instructions for Cleaning Prior to Disinfection against *Clostridium difficile* endospores

**Personal Protection:** Wear appropriate barrier protection such as gloves, gowns, masks and eye covering.

**Cleaning Procedure:** Fecal matter/waste must be thoroughly cleaned from surfaces/objects before disinfection by application with clean cloth, mop, and/or sponge saturated with product intended for disinfection. Cleaning includes vigorous wiping and/or scrubbing, until visible soil is removed. Special attention is needed for high-touch surfaces. Clean the surfaces in patient rooms in an appropriate manner, with restrooms cleaned last. Do not reuse soiled cloths. **Infectious Materials Disposal:** Cleaning materials used that may contain feces/wastes must be disposed of immediately in accordance with local regulations for infectious materials disposal.

**[For] Killing *Clostridium difficile*¥ [spores]:** Add 1 part bleach to 9 parts water to achieve a 1:10 dilution (~7,800 ppm available chlorine) before use. Clean hard, nonporous surfaces by removing visible soil [loose dirt, debris, blood/bodily fluids, etc.]. Apply 1:10 solution and allow surface to remain visibly wet for -or- let stand for 3 -or- 5 min[utes]. Rinse and air dry. Prepare fresh solution daily. [Avoid contact with surfaces that may be damaged by bleach.] Do not use on non-stainless steel, aluminum, silver, or chipped enamel.

**[For] Killing TB -or- To Kill TB -or- To Kill *Mycobacterium bovis* - BCG, (TB) -or- Tuberculocidal Efficacy:** Preclean surface prior to disinfection. Add 1 part bleach to 9 parts water to achieve a 1:10 dilution (~7,800 ppm available chlorine) before use. Apply 1:10 solution and allow surface to remain visibly wet for -or- let stand for 10 min[utes] at room temperature (19 °C -or- 66.2 °F) -or- (18 °C to 20°C -or- 64.4 °F to 68°F). Rinse and air dry. Prepare fresh solution daily.

### **Special Instructions for Cleaning and Decontaminating Against HIV, HBV, HCV and Ebola Virus on Surfaces/Objects Soiled with Blood/Body Fluids**

This product kills HIV-1, HBV, HCV and Ebola Virus on precleaned hard, nonporous surfaces/objects previously soiled with blood/body fluids in health care settings (e.g. hospitals, nursing homes) or other settings in which there is an expected likelihood of soiling of hard, nonporous surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 [(HIV-1)] (associated with AIDS), [Human] Hepatitis B Virus (HBV), [Human] Hepatitis C Virus (HCV), and Ebola Virus.

**Personal Protection:** When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks, and eye coverings.  
**Cleaning Procedure:** Blood and other body fluids must be thoroughly cleaned from surfaces and other objects before applying this product.  
**Dilution and Contact time:** Prepare a solution of 1/2 cup of bleach + 1 gal[lon] of water (at least 2,400 ppm available chlorine) and spray or flood surface; allow surface to remain visibly wet for -or- let stand 5 min[utes].  
**Disposal of infectious materials:** Use disposable latex gloves, gowns, masks, and eye coverings. Blood and other body fluids must be autoclaved and disposed of according to local regulations for infectious waste disposal.

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### **Sanitization Directions for Use:**

**[For] Sanitizing:**

**Food Contact Surfaces:**

-or-

To sanitize *insert surface(s) from Table 2* -and/or- *insert surface material(s) from Table 3*[:]

Use approximately two -or- 2 teaspoons -or- tsp of this product per gal[lon] of water to prepare a 200 ppm available chlorine. Use chlorine test strips to quantify the available chlorine. [If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Wash, wipe, or rinse items with detergent and water, then apply sanitizing -or- bleach solution. Allow surface to remain visibly wet for -or- Let stand 2 min[utes]. Air dry.

Sealed wooden cutting boards: Use approximately two -or- 2 Tablespoons -or- Tbsp of this product per gal[lon] of water to prepare a 600 ppm available chlorine solution. Use chlorine test strips to quantify the available chlorine. [If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Wash, wipe, or rinse items with detergent and water, then apply sanitizing -or- bleach solution. Allow surface to remain visibly wet for -or- Let stand 2 min[utes]. Rinse all surfaces with a solution of 2 teaspoons -or- tsp of this product per gal[lon] of water. Do not rinse or soak equipment overnight.

**Non-Food Contact Surfaces:**

-or-

To sanitize *insert surface(s) from Table 1* -and/or- *insert surface material(s) from Table 3*[:]

Use 1/2 cup of this product per gal[lon] of water. Wash, wipe, or rinse items with detergent and water, then apply sanitizing -or- bleach solution. Allow surface to remain visibly wet for -or- Let stand 30 sec[onds]. Air dry.

**Fruit & Vegetable Washing:**

Thoroughly clean all fruits and vegetables. Mix 1/4 teaspoon -or- tsp of this product in 1 gal[lon] of water to make a sanitizing solution of 25 ppm available chlorine. Submerge fruit or vegetables in this sanitizing solution for 2 min[utes]. [Rinse with water, and air dry.]

## Hospital -or- Healthcare Use

### [For] Hospital -and/or- Healthcare Use -or- Disinfection:

#### To Kill *Pseudomonas aeruginosa*:

Use 1/2 cup of this product per gal[lon] of water. [Pre]wash surface -or- item, then apply disinfecting -or- bleach solution. Allow surface to remain visibly wet for -or- Let stand 5 min[utes]. Rinse [thoroughly -or- well] and air dry. -or- Follow Disinfection Directions for use. Allow surface to remain visibly wet for -or- Let stand 5 min[utes].

#### To Kill *Clostridium difficile*‡ [(C. diff.)] [spores]:

Clean hard, nonporous surfaces by removing visible soil [(loose dirt, debris, blood/bodily fluids, etc.)]. Apply 1:10 solution (~7,800 ppm available chlorine) and allow surface to remain visibly wet for -or- let stand for 3 -or- 5 min[utes]. Rinse and air dry. Prepare fresh solution daily.

#### To Kill *Mycobacterium bovis* [(BCG)] (TB):

Preclean surface prior to disinfection. Add 1 part bleach to 9 parts water to achieve a 1:10 dilution (~7,800 ppm available chlorine) before use. Apply 1:10 solution and allow surface to remain visibly wet for -or- let stand for 10 min[utes] at room temperature 19 °C -or- 66.2 °F) -or- (18 °C to 20°C -or- 64.4 °F to 68°F). Rinse and air dry. Prepare fresh solution daily.

‡Follow [the] Special Instructions for Cleaning Prior to Disinfection [listed on label]

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## Spray Applications

This product can be diluted and spray applied for convenient broad spectrum disinfection of hard, nonporous surfaces in *insert site (s) from Table 2.*

### Directions for use:

Hard Nonporous Surfaces:

To disinfect hard nonporous surfaces, first clean surface by removing visible soil (loose dirt, debris, food materials, etc.). Make solution by adding 1/2 cup bleach + 1 gal[lon] of water [(~2,400 ppm available chlorine)].

Spray surface using a coarse spray with the bleach solution until thoroughly wet. Allow it to remain on the surface for 5 min[utes]. Rinse and dry.

To ensure [sodium] hypochlorite [bleach] stability, prepare solutions daily.

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### Closure Directions for Use

#### to be molded into the Child-Resistant Cap

Squeeze -or- Press -or- Pinch -or- Push -or- Depress -or- Grasp -or- Force -or- Pressure -or- Crush [Sides] and -or- & Lift [Up] -or- Pull [Up] -or- Raise [Up] -or- Tilt [Up] -or- Pick Up -or- Elevate

-or-

Push -or- Thrust -or- Drive -or- Ram -or- Move -or- Force and -or- & Twist -or- Wind -or- Coil -or- Curl -or- Twirl -or- Bend -or- Rotate -or- Turn -or- Screw -or- Wrench

***Professional/Institutional uses - including labels intended for restaurants, medical facilities, daycare facilities; 121 fl oz.***

**STORAGE AND DISPOSAL:** Do not contaminate food or feed by storage, disposal or cleaning of equipment. Store away from children. Reclose cap tightly after each use. [This product] degrades with age and exposure to heat and sunlight. Store upright in a cool, dry area, away from direct sunlight and heat. In case of spill, flood areas with large quantities of water. **PRODUCT DISPOSAL:** Product or rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer. **CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. [Triple rinse container (or equivalent) promptly after emptying.] Recycle empty container or discard in trash.

***Professional/Institutional uses -For use with containers greater than 5 gallons:***

**STORAGE AND DISPOSAL:** Do not contaminate food or feed by storage and disposal of this product. **STORAGE:** Store away from children. Reclose cap tightly after each use. [This product] degrades with age and exposure to heat and sunlight. Store upright in a cool, dry area, away from direct sunlight and heat. In case of spill, flood areas with large quantities of water before discarding this container in trash.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the EPA Regional Office for guidance.

***nonrefillable container***

**CONTAINER HANDLING AND DISPOSAL:** Nonrefillable container. Do not re-use or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty remaining contents from this container into mix tank. Pressure rinse container thoroughly. Empty rinsate into mix tank for dilution before disposal into sanitary sewer. Repeat pressure rinse procedure two more times. Recycle empty container or discard in trash. Do not contaminate food or feed by storage and disposal of this product.

***refillable container***

**CONTAINER HANDLING AND DISPOSAL:** Refillable container. Refill container with this product only. Do not reuse this container for any other purpose. Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container prior to final disposal, empty remaining contents from this container into mix tank. Pressure rinse container thoroughly. Empty rinsate into mix tank for dilution before disposal into sanitary sewer. Repeat pressure rinse procedure two more times. Recycle empty container or discard in trash. Do not contaminate food or feed by storage and disposal of this product.

<b>List 1 Laundry Sanitization Organisms</b>	
<b>Bacteria</b>	<b>ATCC and/or Strain</b>
Klebsiella pneumoniae [(Kleb)]	[ATCC 4352]
Methicillin-Resistant Staphylococcus aureus [(MRSA)]	[ATCC 33592]
Pseudomonas aeruginosa [(Pseudomonas)]	[ATCC 15442]
Staphylococcus aureus [(Staph)]	[ATCC 6538]
<b>List 2 Laundry Disinfection Organisms</b>	
<b>Bacteria</b>	<b>ATCC and/or Strain</b>
Klebsiella pneumonia [(Kleb)]	[ATCC 4352]
Pseudomonas aeruginosa [(Pseudomonas)]	[ATCC 15442]
Staphylococcus aureus [(Staph)]	[ATCC 6538]
<b>Viruses</b>	<b>ATCC and/or Strain</b>
Hepatitis A Virus	[Strain HM-175]
Influenza Virus Type A2	[ATCC VR-544] [Strain Hong Kong]
Rhinovirus Type 37	[ATCC VR-1147]
Rotavirus	[Strain WA]
<b>List 3 Hard, Nonporous Surface Disinfection Organisms</b>	
<b>Bacteria</b>	<b>ATCC and/or Strain</b>
Acinetobacter baumannii	[ATCC 19606]
Bordetella pertussis	[ATCC 12743]
Campylobacter jejuni	[ATCC 29428]
Carbapenem-Resistant Escherichia coli	[CDC 81371]
Community Associated Methicillin-Resistant Staphylococcus aureus [(CA-MRSA)]	[NARSA NRS123] [Genotype USA400]
Enterococcus faecalis	[ATCC 29212]
Escherichia coli O157:H7 [(E. coli)]	[ATCC 35150]
Extended Spectrum Beta Lactamase producing Escherichia coli [(ESBL producing E. coli)]	[ATCC BAA-196]
Haemophilus influenzae	[ATCC 10211]
Klebsiella oxytoca	[ATCC 13182]
Legionella pneumophila	[ATCC 33153]
Listeria monocytogenes	[ATCC 19117]
Methicillin-resistant Staphylococcus aureus [- (MRSA)]	[ATCC 33592]
Multi-drug Resistant Enterococcus faecium <sup>[6]</sup>	[ATCC 51559]
Multi-drug resistant Klebsiella pneumoniae <sup>[7]</sup>	[ATCC 51503]
New Delhi Metallo-Beta Lactamase-1 (NDM-1) producing Enterobacter cloacae	[CDC 1000654]
New Delhi Metallo-Beta Lactamase-1 (NDM-1) producing Escherichia coli	[CDC 1001728]
Penicillin-resistant Streptococcus pneumoniae	[ATCC 700677]
Proteus mirabilis [(Proteus)]	[ATCC 9240]
Pseudomonas aeruginosa [(Pseudomonas)]	[ATCC 15442]
Salmonella enterica [(Salmonella)]	[ATCC 10708]
Serratia marcescens	[ATCC 14756]
Shigella dysenteriae [(Shigella)]	[ATCC 11835]
Staphylococcus aureus [(Staph)]	[ATCC 6538]
Staphylococcus epidermidis [(Coagulase-negative staphylococci)]	[ATCC 12228]
Streptococcus pneumoniae [(Strep)]	[ATCC 6305]
Streptococcus pyogenes [(Strep)]	[ATCC 19615]

Vancomycin-Resistant Enterococcus faecalis [(VRE)]	[ATCC 51575]
Vibrio cholerae	[ATCC 11623]
Yersinia enterocolitica	[ATCC 23715]
<b>Spore-forming Bacterium</b>	<b>ATCC and/or Strain</b>
Clostridium difficile <sup>¶, [24]</sup> [(C. diff.)] spore	[ATCC 43598]
<b>Mycobacterium</b>	<b>ATCC and/or Strain</b>
Mycobacterium bovis [(BCG)] (Tuberculosis -or- TB) <sup>16</sup>	
<b>Mold, Mildew, Fungi</b>	<b>ATCC and/or Strain</b>
Aspergillus brasiliensis <i>tested as Aspergillus niger</i> [(mildew)]	[ATCC 16404]
Candida albicans [(Candida)]	[ATCC 10231]
Trichophyton interdigitale <i>tested as Trichophyton mentagrophytes</i> [(Trichophyton -or- Athlete's Foot Fungus)]	[ATCC 9533]
<b>Viruses Enveloped</b>	<b>ATCC and/or Strain</b>
‡2009-H1N1 Influenza A Virus [(Novel H1N1)]	[Strain A/Mexico/4108/2009 CDC #2009712192]
‡Avian Influenza A Virus [(H3N2)]	[ATCC VR-2072] [Strain A/Washington/897/80 X A/Mallard/New York/6750/78]
‡Avian influenza [Type A] Virus (H5N1)	[Strain VN/H5N1-PR8/CDC-RG CDC #2006719965]
‡Avian Influenza A (H7N9) Virus	[Strain wildtype A/Anhui/1/2013, CDC # 2013759189]
‡Cytomegalovirus	[ATCC VR-538] [Strain AD-169]
‡, ††Ebola Virus	[Zaire-Kikwit]
‡Hantavirus	[(Prospect Hill Virus)]
‡Herpes Simplex Virus Type 1	[ATCC VR-733] [Strain F(1)]
‡Herpes Simplex Virus Type 2	[ATCC VR-734] [Strain G]
‡Human Coronavirus	[ATCC VR-740] [Strain 229E]
‡, †† Human Hepatitis B Virus (as duck HBV) [(HBV)]	
‡, †† Human Hepatitis C Virus (as Bovine Viral Diarrhea Virus) [(HCV)]	
‡, †† Human Immunodeficiency Virus Type 1 [(HIV-1)]	[Strain HTLV-IIIB]
‡Influenza A Virus [Influenza A2 Virus] [Flu Virus]	[ATCC VR-544, Strain Hong Kong]
‡Influenza B Virus	[ATCC VR-823] [Strain B/Hong Kong/5/72]
‡Measles Virus	[ATCC VR-24]
‡MERS (Middle Eastern Respiratory Syndrome)-Associated Coronavirus (MERS-CoV)	[CDC strain 200300592]
‡Mumps Virus	[Strain Jones, ATCC VR-1438]
‡Newcastle disease virus	[ATCC VR-108] [Strain B1, Hitchner or Blacksburg]
‡Parainfluenza Virus [(Type 3)]	[ATCC VR-93] [Strain C243]
‡Respiratory Syncytial Virus [(RSV)] [(causes colds)]	[ATCC VR-26] [Strain Long]
‡Rubella Virus [(German Measles Virus)]	[ATCC VR-315] [Strain M-33]
‡SARS-associated Coronavirus	[CDC strain 200300592]
‡SARS-CoV-2 [(cause of COVID-19)]	[Strain USA-WA1/2020]
‡Varicella Zoster Virus	[ATCC VR-1367]

<b>Viruses Large Non-Enveloped</b>	<b>ATCC and/or Strain</b>
‡Adenovirus [Type 2] [(causes cold)]	[ATCC VR-846] [Strain Adenoid 6]
‡Rotavirus	[Strain WA]
<b>Viruses Small Non-Enveloped</b>	
‡Canine Parvovirus <sup>4</sup>	[ATCC VR-2017] [Strain Cornell]
‡Coxsackievirus B3 Virus	[ATCC VR-30] [Strain Nancy]
‡Enterovirus EV-D68	[ATCC VR-561]
‡Feline Calicivirus [as surrogate for Norovirus]	[ATCC VR-782]
‡Feline Parvovirus <sup>4</sup> [(Feline panleukopenia Virus)]	[ATCC VR-648]
‡Murine Norovirus [as surrogate for Norovirus]	[Strain MNV-1.CW1]
‡Hepatitis Type A Virus [(HAV)]	[Strain HM-175]
‡Poliovirus [Type 1]	[ATCC VR-1562] [Strain Chat]
‡Rhinovirus Type 37 [(a [common] cause of the common cold)]	[ATCC VR-1147, Strain 151-1]
<b>List 4 Food Contact Sanitization</b>	
<b>Bacteria</b>	<b>ATCC and/or Strain</b>
Escherichia coli O157:H7 [(E. coli)]	[ATCC 35150]
Listeria monocytogenes [(Listeria)]	[ATCC 19111]
Salmonella enterica [Serovar typhi]	[ATCC 6539]
Yersinia enterocolitica	[ATCC 23715]
<b>List 5 Non-Food Contact Sanitization</b>	
<b>Bacteria</b>	<b>ATCC and/or Strain</b>
Klebsiella pneumoniae [(Kleb)]	[ATCC 4352]
Staphylococcus aureus [(Staph)]	[ATCC 6538]

## Antimicrobial Claims

- 3-in-1: Cleans, whitens, and disinfects<sup>14</sup>
- 5-in-1: cleans, disinfects<sup>14</sup>, whitens, brightens [and] removes odors
- [64 fl] oz bottle] Makes 16 gal[lons] of disinfecting solution **this claim to be used only for 64 fl oz bottle**
- [121 fl] oz bottle] Makes 30 gal[lons] of disinfecting solution **this claim to be used only for 121 fl oz bottle**
- A few surprising uses of bleach -or- **this product**. Disinfecting [pet] toys -and/or- Sanitizing baby bottles -and/or- sippy cups -and/or- plastic cutting boards -and/or- travel mugs -and/or- pet bowls.
- A germicide & disinfectant
- Antibacterial
- Antibacterial produce rinse -or- soak -or- wash
- Antifungal
- Bactericide
- Bactericidal
- Can be used as a produce -or- vegetable -or- fruit rinse -or- soak -or- wash
- Can be used to disinfect your pet's accessories and nonporous toys
- Can be used to sanitize -and/or- clean your baby's laundry -and/or- clothes -and/or- cloth diapers
- Clean. Disinfect.
- Clean -and/or- disinfect -and/or- remove [tough] stains with less product [than before]<sup>1</sup>
- Cleans -and/or- Disinfects -and/or- Whitens -and/or- Sanitizes with -or- using less bleach [than before]<sup>1</sup>
- Clean[ing][s] -and/or- disinfect[ing][s] [for] [the] hard nonporous surfaces [in] [your] **insert site(s) from Table 2** [area] against -or- from -or- by killing [99.9% of] germs<sup>[†]</sup> -and/or- bacteria -and/or- viruses<sup>‡</sup>
- Clean[s] away -or- out and Kill[s] -or- Eliminate[s] -or- Destroy[s] -or- Remove[s] -or- Wipe[s] away -or- out -or- Attack[s] -or- Get[s] rid of [99.9% of] **must remove brackets when "eliminate[s]" in claim** [the] bacteria -and/or- germs<sup>[†]</sup> -and/or- viruses<sup>‡</sup> [commonly found in **insert site(s) from Table 2** [areas]]
- Cleans and Disinfects
- Clostridium difficile<sup>¥</sup> -or- C. difficile<sup>¥</sup> -or- C. diff.<sup>¥</sup> spores tested in the presence of [three -or- 3 part] soil [load] [in 3 -or- 5 min[utes]]
- Concentrated disinfecting ingredients [in every drop]
- Disinfect -and/or- Deodorize -and/or- Kill [99.9% of] Germs<sup>[†]</sup> on **insert surface(s) from Table 1** -and/or- **insert surface material(s) from Table 3** -and/or- in **insert site(s) from Table 2**
- Disinfect for a Clorox<sup>®</sup> [bleach] clean
- Disinfectant
- Disinfecting
- Disinfect[ing] [for] [the] hard, nonporous surfaces in [the -or- your] entire home
- Disinfects
- Disinfects and deodorizes by killing [most<sup>28</sup>] germs and their odors
- Disinfect[s] -and/or- kill[s] [99.9% of] germs with only 1/2 cup
- Disinfects -and/or- Sanitizes -and/or- Deodorizes -and/or- Eliminates Odors -and/or- cleans [around the house on hard, nonporous surfaces]
- Disinfects -and/or- Sanitizes -and/or- Eliminates Mildew -and/or- Deodorizes
- Disinfects **insert site(s) from Table 2**
- Disinfects hard, nonporous surfaces against **insert organism(s) from List 3**
- Disinfects hard, nonporous surfaces against SARS-CoV-2 [the cause of -or- the coronavirus that causes COVID-19] [in 5 min[utes]]
- Disinfects pet areas, accessories and nonporous toys [including kennels -and/or- litter boxes -and/or- floors]
- Disinfects [potable] drinking water [in emergency situations]
- Disinfects hard, nonporous surfaces in your home -and/or- kitchen -and/or- bathroom -and/or- garage-and/or- sink -and/or- tub -and/or- toilet
- Effective against [2009] H1N1 [Flu Virus]
- Effective against -or- Kills SARS-CoV-2 [the cause of -or- the coronavirus that causes COVID-19] [in 5 min[utes]]<sup>P</sup>
- Eliminates 99.9% of germs -and/or- bacteria
- Eliminates odor causing bacteria and prevents the build-up of odors in your [H[igh] E[fficiency]] laundry machine
- Eliminates Odors, Whitens and Disinfects
- Fight[s] -and/or- kill[s] -and/or- effective against Avian influenza Virus [on hard, nonporous surfaces]
- Fight[s] -or- Kill[s] -or- Effective [against] **insert organism(s) from List 3**
- Fight[s] -or- Stop[s] -or- Kill[s] -or- Eliminate[s] -or- Destroy[s] -or- Remove[s] -or- Wipe[s] away -or- out -or- Attack[s] -or- Get[s] rid of [99.9% of] **must remove brackets when "eliminate[s]" in claim** [the] germs<sup>[†]</sup> -and/or- bacteria -and/or- mold -and/or- viruses<sup>10 -or- 3 -or- 9</sup> [that [can] cause [the] [common] cold -and/or- flu] [in your **insert site(s) from Table 2** [area]]
- For institutional use
- Fungicidal
- Fungicide
- Germicidal
- Germicide
- Gets Rid Of Germs<sup>[†]</sup> -and/or- Dirt
- Help reduce cross-contamination of cold and flu viruses<sup>10</sup> between treated surfaces [in your home -and/or- office]
- [Helps] Eliminate[s] -or- Reduce[s] odor[-causing bacteria] [from your [H[igh] E[fficiency]] machine]
- [Helps] Prevent[s] [the] build-up of odor-causing bacteria [in your machine]
- Hospital Disinfectant
- Inexpensive and effective business-place disinfectant
- It's amazing what you can use **this product** for[:] disinfecting toys -and/or- sanitizing baby bottles -and/or- sippy cups -and/or- plastic cutting boards -and/or- travel mugs -and/or- pet bowls
- Kills [2009] H1N1 [Flu Virus]
- Kills [99.9% of] [common] germs<sup>†</sup> -or- bacteria
- Kills 99.9% of **insert organism(s) from List 1** in your laundry
- Kills [99.9% of] mold [and mildew]
- Kill[s] [99.9% of] bacteria on the surfaces you[r kids] touch every day
- Kills [99.9% of] flu viruses<sup>3</sup>
- Kills [99.9%] of Germs including [2009] H1N1 [Flu Virus]
- Kills 99.9% of [common] germs -or- bacteria -or- cold and flu viruses<sup>10</sup> in 5 min[utes] **This claim is only to be used on labels with organisms/use instructions with a 5 minute contact time. Not to be used for labels listing Canine Parvovirus, Feline Parvovirus -or- feline panleukopenia Virus or Mycobacterium bovis since these organisms have a 10 minute contact time.**
- Kills 99.9% of germs in your laundry<sup>2</sup>

- Kills 99.9% of Germs<sup>[†]</sup> -and/or- Viruses<sup>‡</sup> -and/or- Bacteria + -or- including COVID-19 Virus<sup>◇</sup>
- Kills [99.9% of] viruses that cause colds and the flu: Rhinovirus and Influenza A Virus
- Kills [99.9% of] **insert organism(s) from List 3** [on **insert surface(s) from Table 1**-and/or- **insert surface material(s) from Table 3**] [in **insert site(s) from Table 2**]
- Kills 99.9% of **insert organism(s) from Lists 4** -and/or- **5**
- Kills [99.9% of] [many] germs<sup>[†]</sup> -and/or- bacteria
- Kills [99.9% of] surface germs<sup>[†]</sup> and bacteria<sup>25</sup>
- Kills [99.9% of] [the] cold -and/or- flu viruses<sup>10 -or- 3 -or- 9</sup>
- Kills [99.9% of] [the] germs<sup>[†]</sup> on hard, nonporous surfaces around your home -or- house
- Kills [99.999% of] Clostridium difficile<sup>¥</sup> [(C. diff.)] spores
- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] **must remove brackets when “eliminate[s]” in claim** [the] bacteria -and/or- germs<sup>[†]</sup> - and/or- viruses<sup>‡</sup> [commonly] found in [the] **insert surface(s) from Table 1** -and/or- **insert surface material(s) from Table 3** -and/or- on [the] **insert site(s) from Table 2**
- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] **must remove brackets when “eliminate[s]” in claim** [the] cold virus<sup>9</sup> -and/or- flu virus<sup>3</sup> -and/or- cold and flu viruses<sup>10 -or- 3 -or- 9</sup> [commonly] found in -or- on [the] in [the] **insert surface(s) from Table 1** -and/or- **insert surface material(s) from Table 3** -and/or- on [the] **insert site(s) from Table 2**
- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] **must remove brackets when “eliminate[s]” in claim** [the] bacteria - and/or- germs<sup>[†]</sup> - and/or- viruses<sup>‡</sup> [commonly] found in [the] **insert surface(s) from Table 1** -and/or- **insert surface material(s) from Table 3** -and/or- on [the] **insert site(s) from Table 2**
- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] **must remove brackets when “eliminate[s]” in claim** [the] **insert organism(s) from list 3** [commonly] found in [the] **insert surface(s) from Table 1** -and/or- **insert surface material(s) from Table 3** -and/or- on [the] **insert site(s) from Table 2**
- Kills bacteria on hard, nonporous surfaces
- Kills Clostridium difficile<sup>¥</sup> [(C. diff.)] spores
- Kills Germs<sup>[†]</sup> and Removes Odors
- Kills Germs<sup>[†]</sup> -and/or- Flu Viruses [including [2009] H1N1]
- Kills Mycobacterium bovis - BCG, [(TB) -or- (Tuberculosis)]
- Kills -or- Disinfects against -or- Effective against [the] COVID-19 virus<sup>◇</sup> -or- virus that causes COVID-19<sup>◇</sup> [in 5 min[utes]]
- Kills -or- removes mold [and mildew]
- Makes water safe to drink [in emergency situations]
- Mildewcide
- Mildewcidal
- Pseudomonacidal<sup>20</sup>
- Reduces exposure to Clostridium difficile<sup>¥</sup> [(C. diff.)] -or- C. difficile<sup>¥</sup> -or- C. diff.<sup>¥</sup> from treated surfaces
- Reduces exposure to Methicillin-resistant Staphylococcus aureus [(MRSA)] from treated surfaces
- Removing -or- Killing -or- Fighting -or- Eliminating [99.9% of] germs<sup>[†]</sup> -and/or- bacteria -and/or- viruses<sup>‡</sup> [since 1913] [for [more than -or- over] 100 years]
- Remove[s] bacteria from your children’s hard, nonporous toys
- Sanitizer
- Sanitizes
- Sanitizes [every load of your] laundry
- Sanitizes garbage -or- trash cans
- Sanitizes hard, nonporous [food-contact] surfaces against **insert organism(s) from List 4**
- Sanitizes hard, nonporous [nonfood-contact] surfaces against **insert organism(s) from List 5**
- Sanitizes hard, nonporous surfaces against **insert organism(s) from Lists 4** -and/or- **5**
- Sanitizes laundry against **insert organism(s) from List 1**
- Sanitizes your baby’s -or- workout clothes -or- laundry
- Sanitize your **insert use site(s) from Table 2** -and/or- **insert use surface(s) from Table 1**. **Use instructions will be included for all use sites selected**
- Sanitizes your laundry
- Sanitizes [your] laundry and disinfects hard, nonporous surfaces in [your] home
- Sanitizing
- Streptocidal<sup>21</sup>
- Staphylocidal<sup>22</sup>
- Tested [and proven effective] against SARS-CoV-2 [the cause of -or- the coronavirus that causes COVID-19] [in 5 min[utes]]<sup>P</sup>
- The solution for your business’s [disinfecting -and/or- cleaning] needs
- [This holiday season,] don’t forget to disinfect -or- clean your **insert surface(s) from Table 1** [with a solution of bleach]
- [This holiday season,] don’t forget to sanitize -or- clean your **insert surface(s) from Table 1** -and/or- **Table 2** [with a solution of bleach]
- [**This product**] was tested using the AOAC [Use-Dilution test] efficacy standards [for hospital disinfectants].
- [**This product**] Removes the dirt -and/or- stains you see and the germs<sup>[†]</sup> you don’t see
- [**This product**.] Useful in so many ways: Disinfect [pet] toys -and/or- Sanitize baby bottles -and/or- sippy cups -and/or- plastic cutting boards -and/or- travel mugs -and/or- pet bowls
- [**This product**] Whiten[s]. -and/or- Remove[s] Stains. -and/or- Clean[s]. -and/or- Disinfect[s].
- Virucidal<sup>‡</sup>
- Virucide<sup>‡</sup>
- Whitening -and/or- cleaning -and/or- disinfecting made easy
- Whitens, Deodorizes, and Disinfects

**Emerging Viral Pathogen Claims**

***This product qualifies for emerging viral pathogen claims per the EPA’s “Guidance to Registrants: Process for Making Claims Against Emerging Viral Pathogens not on EPA-Registered Disinfectant Labels.” when used in accordance with the appropriate use directions indicated below.***

This product meets the criteria to make claims against certain emerging viral pathogens from the following viral categories:

- Enveloped viruses
- Large non-enveloped viruses
- Small non-enveloped viruses

<i>For an emerging viral pathogen that is a/an..</i>	<i>..follow the directions for use for the following organisms on the label:</i>
Enveloped virus	Rhinovirus Type 37
Large, non-enveloped virus	Rhinovirus Type 37
Small, non-enveloped virus	Feline Calicivirus (as surrogate for Norovirus) Rhinovirus Type 37

***This product*** has demonstrated effectiveness against viruses similar to ***insert name of emerging virus*** on hard, nonporous surfaces. Therefore, ***this product*** can be used against ***insert name of emerging virus*** when used in accordance with the directions for use against ***insert name of supporting virus(es)*** on hard, nonporous surfaces. Refer to the CDC -or- OIE website at ***insert pathogen-specific website address*** for additional information.

***Insert name of illness/outbreak*** is caused by ***insert name of emerging virus***. ***This product*** kills similar viruses and therefore can be used against ***insert name of emerging virus*** when used in accordance with the directions for use against ***insert name of supporting virus(es)*** on hard, nonporous surfaces. Refer to the CDC -or- OIE website at ***insert pathogen-specific website address*** for additional information.

### **General/Cleaning/Stain Removal/Deodorizing Claims**

- 1/2 cup = 1 load [for the same great results<sup>1</sup>
- 1.37X Concentrated Bleach<sup>1</sup>
- 2 in 1 solution for cleaning and laundry
- 2-in-1 laundry and cleaning
- [3-in-1 clean] [3x clean]: Cleans, whitens and removes stains
- 10x deep cleaning benefits<sup>f</sup>
- [100 year] Anniversary -and/or- vintage [Edition]
- A classic -or- essential cleaner -or- cleaning product
- Add **this product** to your detergent and get more pristine whites
- Advanced -or- Proprietary whitening technology
- All-in-one cleaning and laundry solution
- All you need is half -or- 1/2 [of] [a] cup for your laundry needs!<sup>1</sup>
- Anti-Allergen (non-living)
- Best Whitening, Guaranteed [1-800-292-2200]
- Before 3/4 cup --> [use] 1/2 cup [for laundry [use]]
- Bleach has never been easier to use!<sup>1</sup>
- Bleach Works
- Bleaches Out Tough Stains
- Boosts Cold Water Cleaning -or- Washing Power
- Boost Laundry Cleaning Power
- Boosts the performance of your H[igh] E[fficiency] machine
- Brighten[s] Laundry [Whites]
- Brightens whites
- Clean laundry begins with a clean machine
- Clean Pour
- Cleans [Deodorizes,] [and][,] Whitens [and][,] [Brightens] [and Works in Cold Water][!]
- Cleans -and/or- Deodorizes [Around The House]
- Cleanses -and/or- whitens [the clothes]
- Cleans your H[igh] E[fficiency] washing machine
- Clean[s] Whites
- Cleaning booster [even] in -or- on cold water washing
- [Clorox] Centennial [Anniversary]
- Cold Water Booster
- Collectible -or- collector's edition [bottle -or- label]
- Commercial -and/or- Institutional Use
- [Compatible] For Use In H[igh] E[fficiency] [Washing] Machines
- Concentrated = Same Cleaning -and/or- Whitening Power[!] [as before]<sup>1</sup>
- [Concentrated [!]] [For the same great results -or- For whitest whites,] use 1/2 cup\*\*\*\* -or- use [33% -or- 1/4 cup -or- 1/3] less<sup>1</sup>[than before<sup>1</sup>] [vs. -or- compared to [previous] Clorox<sup>®</sup> Regular-Bleach [EPA Reg. No. 5813-50]]
- Concentrated [cleaning power] [[to] clean more with less<sup>19</sup>]
- Concentrated formula gives you more cleaning -and/or- whitening per load<sup>1</sup> -and/or- 17]
- Concentrated formula gives you more cleaning -and/or- whitening [power] per load [in [a[n]] H[igh] E[fficiency] washer -or- machine] <sup>1</sup> -and/or- 17]
- Concentrated formula gives you the same whitening -or- cleaning [power] -or- [results -or- performance as [the -or- your] previous -or- old -and/or- non-concentrated bleach -or- Clorox<sup>®</sup> Regular-Bleach [EPA Reg. No. 5813-50]
- Concentrated formula gives you the same number of uses as the old -or- non-concentrated -or- previous 96 [fl] oz -or- 182 [fl] oz [Clorox<sup>®</sup> Regular-Bleach [EPA Reg. No. 5813-50]] bottle
- Concentrated formula -or- whitening power [in an easy -or- easier-to-handle -or- pour -or- store -or- carry -or- use -or- control bottle]<sup>1</sup> **qualifier to be used with "easier"**
- [Concentrated formula] [so you can] [-] use less<sup>1</sup>
- [Concentrated[!]] use 1/2 cup for laundry [use] -or- use [33% -or- 1/3 -or- 1/4 cup] less [for the same great results -or- for whitest whites]<sup>1</sup>
- Concentrated power to clean -and/or- whiten
- Concentrated **this product**
- Concentrated **this product** [along] with detergent cleans whites better in cold than detergent alone cleans in hot, saving you money every year [on your energy bills]
- [[Concentrated] **this product**] gives you the whitest whites in -or- on your energy efficient, cold water loads -or- setting
- [Concentrated **this product** is] [still] great for cleaning!
- [[Concentrated] **this product.**] [It] still whitens better than any other bleach
- [[Concentrated] **this product.**] [It] still whitens better than any other bleach [in [a[n]] H[igh] E[fficiency] washer -or- machine]
- Concentrated - Use Less<sup>1</sup>
- Concentrated whitening -and/or- cleaning formula -or- power
- Concentrated whitening power [in every drop -or- per washload] [in [a[n]] H[igh] E[fficiency] washer -or- machine]
- Deep clean
- Deep powerful cleaning [action]
- Delivers great results in cold water [so that you don't need to wash in warm water, saving you money every year]
- Delivers great results when you use with your machine's cold water setting
- Deodorizer
- Deodorize[s]
- Deodorizing
- Detergent alone is not enough [to get out your toughest stains]
- Doesn't need the extra energy it takes to make the water hot
- Don't forget to run a[n] H[igh] E[fficiency] maintenance cycle with **this product!**
- Easy way to get whiter whites
- Easy -or- easier to handle -and/or- use -and/or- carry -and/or- pour -and/or- store -and/or- control [bottle][<sup>1</sup>] **qualifier to be used with "easier"**
- Easier way to get whiter whites<sup>1</sup>
- Eliminates -or- fights odors
- Eliminates -or- Removes Odors
- For a Clean[er], Fresh[er] Laundry
- **For carton:** Carton made with \_\_\_% recycled paperboard, minimum \_\_\_% post-consumer. -or- This packaging material contains at least \_\_\_% post-consumer recycled paper.
- For Cold Washing
- For colors, use/try Clorox2<sup>®</sup> Stain Remover & Color Booster. It removes the toughest [outdoor] stains better than detergent alone!
- For H[igh] E[fficiency] -and/or- Front loading] Washing Machines
- For odor-free laundry
- For Standard and H[igh] E[fficiency] machines
- For Use in -or- **this product** can be used on hard, nonporous surfaces in **Insert site(s) from Table 2**

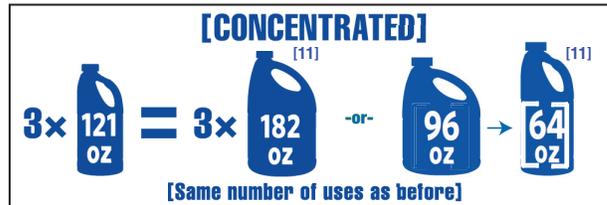
- For [Use in] Standard -and/or- Top Load -and/or- H[igh] E[fficiency] -and/or- Front Load [Washing] Machines
- For use in [the] baby's nursery[:] **insert use surface(s) from Table 1**
- For use in [the] bathroom[:] **insert use surface(s) from Table 1**
- For use in [the] kitchen[:] **insert use surface(s) from Table 1**
- Formulated for baby's white clothes
- [Free[!]] Measuring Cup[!]
- Free of dyes and perfumes -or- Dye [and perfume]-[free]
- Freshens
- Gets Even Your Dirtiest Clothes White
- Great For Cold Water [Cleaning]
- Get whitening -or- stain removal with ease
- Get[s] whites their whitest
- Gives you the [cleanest] [whitest] whites in standard and H[igh] E[fficiency] machines
- [Great around the home!] [For cleaning and laundry!]
- [Great] for [the] schools -and/or- classrooms -and/or- work -and/or- [the] office
- Great for use around the home -and/or- workplace -and/or- laundry room
- [Great -or- Perfect -or- Effective] for cleaning up after your pets -or- dogs -or- cats -or- puppies -or- kittens
- Great Value
- Helps to maintain your H[igh] E[fficiency] machine
- High[er]<sup>1</sup> Strength Bleach [than [previous] Clorox<sup>®</sup> Regular-Bleach [EPA Reg. No. 5813-50]]
- High[er]<sup>1</sup> Strength -or- whitening performance bleach [in H[igh] E[fficiency] washers] [than -or- vs. previous Clorox<sup>®</sup> Regular-Bleach [EPA Reg. No. 5813-50]]
- Improved -or- better whitening [formula] [in a[n] H[igh] E[fficiency] machine]<sup>[1]</sup>
- Improved -or- Better whitening power [in [a[n]] H[igh] E[fficiency] machine -or- washer]<sup>[1] -and/or- 17]</sup>
- Improved stain remover [in [a[n]] H[igh] E[fficiency] machine -or- washer]<sup>[1] -and/or- 17]</sup>
- Improved whitening -or- stain removal action [in [a[n]] H[igh] E[fficiency] machine -or- washer]<sup>[1] -and/or- 17]</sup>
- [In a bottle] [designed for] better control<sup>1</sup>
- In-wash booster
- Keeps whites brighter longer
- Keeps your whites beautiful
- [It's] Clorox<sup>®</sup> clean
- [Just as] gentle on bleachable fabrics [as before<sup>1</sup>]
- Laundry Looks -and/or- Smells Clean
- Less water [in the product] gives you more cleaning -or- whitening per load<sup>1, 17</sup>
- Less water [in the product] [gives you] more cleaning -or- whitening power -or- ingredients [per load -or- in every drop] [in [a[n]] H[igh] E[fficiency] washer -or- machine]<sup>[1] [17]</sup>
- Limited time [offering]
- Liquid cleaning washing compound
- Look -or- Presentation
- Made with [innovative] processing technology
- More cleaning -and/or- whitening -and/or- stain removal power per drop<sup>19</sup>
- More Value [Than Before]
- More whitening in every -or- per washload<sup>[1] -and/or- 17]</sup>
- More whitening power [in every drop -or- per washload] [in [a[n]] H[igh] E[fficiency] machine -or- washer]<sup>[1] -and/or- 17]</sup>
- [My] Clorox [bleach] is [even] more practical to use<sup>1</sup>
- No lime or acids in this solution
- Only [one-] half -or- 1/2 a cup for your laundry needs!<sup>1</sup>
- Powerful Cleaning Action
- [[Proprietary Whitening Technology] = [for]] Whitest Whites
- [Proprietary Whitening Technology [=] ] Guaranteed best whitening [1-800-292-2200]
- [Proprietary Whitening Technology] keeps whites their whitest [over time] [, Guaranteed] [1-800-292-2200]
- Proudly Made in [The USA] [North America] [The United States]
- Regularly using **this product** can save you money by helping your clothes last longer from removing stains that would have caused you to discard them
- Remove mold stains [and mildew stains]
- Removes common Non-living Allergens
- Remove[s] dirt
- Removes stains -and/or- mildew
- Removes [Tough] Stains [better than detergent alone] [and whitens whites]
- Removes [tough] stains to get [your] whitest whites
- Remove[s] what detergent can -or- may leave behind
- Removes old set-in stains
- Removes tough stains to get your whitest whites
- Renews whites
- Rids -or- Gets Rid of hard to remove stains [better than detergent alone]
- [Rids] the buildup in [H[igh] E[fficiency]] machines
- Safe to -or- for use on **insert surface material(s) from Table 3**
- Same -and/or- Unbeatable -and/or- Great Whitening Power [as before<sup>[1]</sup> -or- vs. -or- compared to [previous] Clorox<sup>®</sup> Regular-Bleach [EPA Reg. No. 5813-50]]
- Same -and/or- Unbeatable -and/or- Great Whitening<sup>[1]</sup> [as before<sup>1</sup> -or- vs. -or- compared to [previous] Clorox<sup>®</sup> Regular-Bleach [EPA Reg. No. 5813-50]]
- Same cleaning efficacy as always -or- before<sup>1</sup>
- Same cleaning -or- stain removing power [as before]<sup>1</sup>
- Same [great] results [as Clorox<sup>®</sup> Regular-Bleach [EPA Reg. No. 5813-50]]!
- Same number of loads -or- uses<sup>[1]</sup> [as before<sup>1</sup> -or- vs. -or- compared to -or- as [previous] Clorox<sup>®</sup> Regular-Bleach [EPA Reg. No. 5813-50]]
- Same number of uses as [your] 96 [fl] oz -or- 182 [fl] oz [non-concentrated] Clorox<sup>®</sup> Regular-Bleach [EPA Reg. No. 5813-50]
- Same number of uses -or- loads as [your -or- previous] 96 [fl] oz -or- 182 [fl] oz [non-concentrated] Clorox<sup>®</sup> Regular-Bleach [(EPA Reg. No. 5813-50)]
- Same -or- Concentrated cleaning -and/or- whitening [ingredients -or- power] [in every drop -or- per washload] [as before]<sup>[1]</sup>  
**qualifier to be used with "same" or "as before"**
- Same power to remove stains [as before]<sup>1</sup>
- Same price as [your] 96 [fl] oz -or- 182 [fl] oz [non-concentrated] Clorox<sup>®</sup> Regular-Bleach [EPA Reg. No. 5813-50]
- Same great results with less bleach<sup>1</sup>
- Same unbeatable whitening -and/or- cleaning [power] [in a bottle that [is designed to] give[s] [me] better control]<sup>1</sup>
- Same unbeatable whitening [in a bottle that is designed for -or- gives me better control]<sup>1</sup>

- Satisfaction Guaranteed [1-800-292-2200]
- See how to use -or- [[Use your phone to] go here -and/or- scan [the] tag -or- [this] code] to learn -or- get -or- see [more] uses -or- information [on how-to-use **this product**] -or- [how-to] tips -or- [how-to [-use]] videos] -or- Scan here [to learn how to use] -or- [to learn more] -or- [for simple -or- easy instructions][Data rates may apply]
- Sparkling Whites
- Specially formulated for maximum stability
- Still the same usage amount -or- number of uses as the old -or- previous -and/or- 96 [fl] oz -or- 182 [fl] oz [Clorox® Regular-Bleach] bottle
- [Specially formulated] [so you] [only] use 1/2 cup [for laundry [use -or- for the same great results -or- for whitest whites]]<sup>1</sup>
- Stain dissolving technology -or- dissolves stains
- Stain-removing power
- Takes less space in your cupboard<sup>1</sup>
- The bleach brand used by 30 -or- thirty million moms [for 4 -or- four] generations] [for [over] 100 -or- one hundred years] [since 1913]
- The concentrated cleaning power still gets whites their whitest<sup>1</sup>
- [The] cleaning -and/or- whitening power you want [when you need it]
- The Original [All -or- Multi-Purpose] Cleaner
- [The same -or- previous amount -or- dose] yields more<sup>1</sup>
- [The] Same clean [[while] using [even] less]<sup>1</sup>
- [The same] cleaning excellence -or- excellence in cleaning<sup>1</sup>
- [The] Same Clorox Clean -or- White [[while] using less [bleach]]<sup>1</sup>
- The same unbeatable -or- unsurpassed whitening<sup>1</sup>
- [The] same whitening power [I expect from Clorox [bleach]] [as before]<sup>1</sup>
- [The] smart[er] way to clean -or- do laundry
- The stain remover for whites
- The white line is the Clorox line
- This bottle is coded for recyclers. Check to see if recycling facilities accept colored HDPE in your area. Recycle where [recycling] facilities are available.
- [**This product**,] a clean you can smell
- [**This product**] doesn't need hot water to work
- [**This product**,] essential for your disaster preparedness box -or- checklist
- **This product** Gets Even Your Dirtiest Clothes White
- [**This product** gives you] better -or- improved whitening [than ever before] [in [a[n]] H[igh] E[fficiency] washer -or- machine]]<sup>1</sup> -and/or- 17]
- [**This product**] gives you tough stain removal and easy whitening
- [**This product**] gives you whitening with ease -or- pouring with ease -or- controlled whitening -or- whitening without effort
- [**This product**] has advanced whitening technology that is not available in detergent
- [**This product** is] [33% More] concentrated
- [**This product**] [is] [comes] [in] [a] compact -and/or- improved -and/or- better [form] **qualifier to be used with "improved" or "better"**
- [**This product** is] concentrated for tough stain removal and is easy to pour<sup>1</sup>
- [**This product** is] concentrated with a high performance -or- precision formula [in [a[n]] H[igh] E[fficiency] washer -or- machine]]<sup>1</sup> [· 17]
- [**This product** has] concentrated whitening power [in an easy-to-handle bottle]
- [**This product**,] keep a bottle in the **insert use site(s) from Table 2**
- [**This product**] lets you use cold water which requires no extra energy
- [**This product**] makes cleaning easy
- [This product] will not cause damage to septic and waste water systems [when used as directed.]
- [**This product**,] useful in so many ways
- **This product** whitens better than ever before [in [a[n]] H[igh] E[fficiency] machine -or- washer]]<sup>1</sup> -and/or- 17]
- [This product] will not cause damage to -or- is safe for septic and waste water [when used as directed].
- Throwback -and/or- retro [bottle -and/or- label -or- package]
- Tough stain fighting power
- Try Clorox2® Stain Remover & Color Booster, a color-safe way to lose the stains, not the fun!
- Try Clorox2® Stain Remover & Color Booster in your colored loads (it's bleach-free/chlorine-free!). Lose the stains, not the fun!
- Try Clorox2® Stain Remover & Color Booster. It's bleach-free/chlorine-free and safe on colors!
- Try Clorox2® Stain Remover & Color Booster. Lose the stains, keep the colors, guaranteed. Learn more at [www.clorox.com](http://www.clorox.com)
- Try Clorox2® Stain Remover & Color Booster. Removes stains and brightens colors! Learn more at [www.clorox.com](http://www.clorox.com)
- Try Clorox2® Stain Remover & Color Booster to remove the toughest [outdoor] stains better than detergent alone
- Try Clorox2® Stain Remover & Color Booster
- Use 1/2 cup [for laundry use -or- per load] [for whitest whites -or- for the same great results]<sup>1</sup>
- Use 1/2 cup instead of 3/4 cup for laundry [whitening -and/or- cleaning]<sup>1</sup>
- Use 1/2 cup vs. 3/4 cup [for laundry [use]]<sup>1</sup>
- Use less [bleach] [for] [the same] [great] [results]<sup>1</sup>
- Use less [,] [for the] same cleaning power [as before]<sup>1</sup>
- Use less vs. other non-concentrated bleach
- Use **this product** and save money—it cleans your clothes and your [H[igh] E[fficiency]] laundry machine at the same time
- Use **this product** and see the difference [in -or- on your clothes -or- whites -or- stains]]<sup>1</sup> -and/or- 17]
- Use **this product** and see the difference [in -or- on your clothes -or- whites -or- stains] [in [a[n]] H[igh] E[fficiency] washer -or- machine]]<sup>1</sup> -and/or- 17]
- Use **this product** for a clean made easy
- Use **this product** for a Clorox® clean
- Use **this product** for whitest whites
- Use **this product** -or- Clorox® Bleach for pristine whites
- Use **this product** regularly to help prevent stains from building up -or- getting worse
- [Use] **this product** [to] [effectively] remove[s] **insert stain(s)/soils(s) from Table 4** stains!
- Using **this product** -or- bleach is easier than ever<sup>1</sup>
- Using **this product** with the leading detergent whitens -or- cleans better in cold water than just using the leading detergent alone in warm water
- [Value -and/or- Size] [2 -or- 3 -or- 4] Pack
- [Versatile] Multi-purpose cleaner
- [Visit -or- Check [out] our website at] [www.clorox.com](http://www.clorox.com) [for more information] [on Clorox®]

- Washing Machine Cleaner
- White Brite -or- Bright
- Whitening your whites has never been easier<sup>1</sup>
- Whitens and brightens
- Whitens -and/or- removes stains even on cold water [washing]
- Whitens better than detergent alone [and is easy to pour]
- Whitens [Bleachable Fabrics]
- Whitens [whites] [and removes stains]
- Whitens whites by removing [tough] stains
- Whitest Whites

- Whitest Whites [Technology]
- With concentrated **this product**, I will get stains out -or- remove stains the first time
- With concentrated **this product**, I will get the whitest whites the first time
- With less water [in the product]!<sup>1</sup>
- Works [Even] In Cold Water!
- Works in your maintenance cycle [too]
- You get more with the formula when you use the same amount [as before]<sup>1</sup>

*These graphics may show a different number of bottles or different sizes to accommodate various units of sale)*



### Packaging Claims

- [Bleach has never been] easy -or- easier to store -and/or- pour -and/or- handle -and/or- carry<sup>1</sup> **qualifier to be used with “easier”**
- Bottle design
- Bottle designed to pour bleach easily
- [Bottle for an] easier pour into your [H[igh] E[fficiency]] machine<sup>1</sup>
- Bottle [designed to] improve[s] [your] bleach experience [in H[igh] E[fficiency] machines]<sup>1</sup>
- [Bottle is] easier -or- easy to pour in your [H[igh] E[fficiency]] machine<sup>1</sup> **qualifier to be used with “easier”**
- Bottle is specially designed with your comfort -or- experience in mind
- [Bottle is] [for] easier -or- easy [to] use -or pour- in your [H[igh] E[fficiency]] machine -or- washer<sup>1, 18</sup>
- [Concentrated **this product**] uses less packaging material<sup>1</sup>
- [Concentrated] [**this product**] [with a] bottle [that is] [designed to] help prevent[s] splashing
- Designed bottle allows for easy whitening with a comfortable pour
- Designed bottle allows for true-grip pouring
- Designed bottle pours like never before<sup>1</sup>
- Easy -or- easier to use!<sup>1, 18</sup>
- Easy[-]to[-]handle [bottle]
- [Flip top] cap -or- closure [specially] designed for simple and secure closure -or- seal
- [In a] [bottle] with -or- designed for better control -and/or- handling<sup>1</sup>
- Lightweight bottle!
- Packaging technology to handle a better whitening formula [in [a[n]] H[igh] E[fficiency] washer -or- machine]<sup>1</sup> [17]
- Pour [**this product**] with confidence
- Smooth flow goes straight into the machine -or- gets bleach where you want it
- Specially designed [bottle -and/or- closure] for an easier -and/or- more accurate pour<sup>1</sup>
- Specially designed [bottle -and/or- handle] to [help [you]] get bleach where you want it [with confidence]
- Specially designed [bottle -or- closure] for a more comfortable -and/or- controlled -and/or- balanced pour -and/or- experience<sup>1</sup>
- Specially designed [bottle -or- closure] allows you to use bleach right
- Specially designed bottle -and/or- handle [helps] control[s] the flow of bleach
- Specially designed bottle -and/or- closure controls the pour
- Specially designed bottle -and/or- closure helps prevent splashing
- [The -or- Today’s **this product**] bottle controls -or- tames -or- balances -or- handles the strength of bleach for a smooth, splashless pour
- The **this product** bottle even has a spot for your thumb!
- [The] **this product** bottle has been redesigned for a smooth, controlled pour
- [The **this product** bottle is] designed for comfortable pouring -and/or- handling
- [[The] **this product** bottle is] designed for easy bleach dispensing
- [The **this product** bottle is] designed to handle the strength of bleach
- [The **this product** bottle is] designed to mold to -and/or- easily fit in your hand
- [This bottle] [is] [Designed to] Help[s] Prevent[s] spilling -and/or- splashing
- [**This product** has a] [designed bottle -and/or- handle for] better control [than before]<sup>1</sup>
- [**This product**] [Is] Concentrated -and/or- [In an] easy -or- easier-to-handle -or- pour -or- store -or- carry -or- use -or-control [bottle]<sup>1</sup> **qualifier to be used with “easier”**
- [**This product** has a] bottle [better] designed [for you] to handle bleach<sup>1</sup>
- [**This product** has a] technically advanced bottle developed for [smooth -and/or- nearly effortless] pouring
- [**This product** was] designed with your comfort in mind
- [**This product**] [you can] pour with confidence
- [**This product’s** sleek design is] made for modern -or- today’s [generation of] H[igh] E[fficiency] washing machines
- [Use **this product** and] see the difference [in your pour -or- laundry -or- usage experience]<sup>1</sup>
- Using **this product** -or- bleach is easier than ever<sup>1</sup>
- With [an] improved [flip top] closure -or- cap [for an easier -and/or- faster -and/or- more comfortable way to open [it]]<sup>1</sup>
- With a packaging technology to handle a better whitening **this product** [in [a[n]] H[igh] E[fficiency] washer -or- machine]<sup>1, 17</sup>
- Thumbprint for easy -or- easier handling -and/or- pour -or- pouring<sup>1</sup> **qualifier to be used with “easier”**
- [With] Easy[-][to][-] Grip [Handle][!]

**Table 1 Hard, Nonporous Use Surfaces**

Appliances	Garbage cans	Sealed walkways
Baby Bathtubs	Garbage disposals	Shower curtains
Baby bottles	Glassware <sup>[8]</sup>	Shower doors
Barbeque [grills]	Golf balls -and/or- clubs	Shower walls
[Bath]tubs	Hard, nonporous toys	Showers
Bicycles	High chairs	Sides of house
Brushes	Latex enamel painted woodwork	[behind and under] Sinks <sup>P</sup>
Bumpers	Outdoor siding	Sippy cups <sup>[8]</sup>
Cabinet -or- drawer handles	Lunchboxes	[Solid surface -and/or- sealed granite] counter[top]s <sup>[8]</sup>
Cat litter boxes	Ovens	Sports equipment
Ceramic -and/or- glazed tile	Painted cribs	Stainless cutlery <sup>[8]</sup>
[[Ceramic] glazed tile] floors	Pans <sup>[8]</sup>	Stainless utensils <sup>[8]</sup>
Counter[top]s <sup>[8]</sup>	Pet bowls <sup>[8]</sup>	Steering wheel
Changing tables	Plastic [baby] feeding spoons <sup>[8]</sup>	Stove[top]s <sup>27</sup>
Combs	Plastic cutting boards <sup>[8]</sup>	Thermometers
Dashboard	Plastic mattress covers	Toilet [handles]
Diaper pails	Plastic patio furniture	Trash cans
Dishes <sup>[8]</sup>	Playground sets	Trash compactors
Door handles	Playpens	[Travel] mugs <sup>[8]</sup>
Faucets	Pots <sup>[8]</sup>	Urinals
Finished woodwork (decks, fences, arbors, trellises, benches, and patio furniture)	Potty seats -or- trainers	Wading -and/or- kiddie pools
Floors	Refrigerator handles	Walls
Flower pots -and/or- planters	Refrigerators <sup>26,[8]</sup>	Work surfaces
Food contact surfaces <sup>[8]</sup>	Restaurant High Chairs	
Freezers <sup>26,[8]</sup>	Sealed driveways	
	Sealed sidewalks	

**Table 2 Use Sites**

Airplanes	Food Processing Plants/Facilities	Physician's -and/or- Pediatrician's Offices
[All] Around the House <sup>P</sup>	Gyms	Play -and/or- Common Areas
Ambulances	Health Clubs	Playrooms
Animal Care Facilities -and/or- Hospitals	Homes	Playgrounds
Animal Husbandry	Hospital Premises	Pools
Attics	Hospitals	[Public] Restrooms
Automobiles	Institutional establishments -or- premises	Public Transportation
Barbeque -and/or- Grill Areas	Institutions	Resorts
Bathrooms	Kennels	Restaurants
Cafeterias	Kitchens	Sick rooms
Cars	Laboratories	School Buses
Casinos	Laundry rooms	Schools
Churches	Locker Room Facilities	Shelters
Classrooms	[Manicure -and/or- Pedicure] Salons	Shopping Carts
Clinics	Meat Processing Plants	Sick Rooms
Closets	Medical Clinics -or- Offices	Spas
Commercial establishments -and/or- premises	Military Installations	Sports Facilities
Day Care [Centers]	Movie Theaters	Storage Areas
Dental Offices	Nursing Homes	Stores
Diners	Nurseries	Timeshares
Dorms	Office Buildings -and/or- Places -and/or- Areas	Toilet Areas
Eating establishments	Offices	Universities
Elder Care Center	Patient Rooms	Veterinary Offices -or- Premises
[Emergency] Waiting Rooms	Pet Kennels	Work places -and/or- Areas

**Table 3 Hard, Nonporous Surface Materials**

Glass	Plastic	Sealed Patio stone
Glazed Porcelain	Plastic Laminate	Sealed Stucco
Latex enamel	Sealed Brick	Vinyl
Linoleum	Sealed Granite	

**Table 4 Stains/Soils**

[Ball Point] Ink	Grass	[Red] wine
[Blue]berries	[Grape] Juice	[Spaghetti -and/or- Tomato] Sauce
Chocolate [Syrup]	Ketchup	Tea
Coffee	Mud	
Dirt	Mustard	

# SERVICE BULLETINS

[For additional directions for use, including Service Bulletins, visit [www.clorox.com/bleachuse](http://www.clorox.com/bleachuse).]  
**Only approved language from the most recently approved federal master label will be posted to the website.**

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**CONSUMER USES [HINTS]**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

## **Clean Flower Pots and Planters:**

Cleaning flower containers helps prevent the transfer of molds and diseases from old plants to new ones. Wash and [thoroughly] rinse pots and planters. Soak 5 min[utes] in a solution of 1/2 cup of this product to one -or- 1 gal[lon] of water, then rinse.

## **Cold & Flu: [[To] Help Prevent -or- Reduce the Spread of Cold & Flu Viruses<sup>10</sup> -or- [To] Kill [the] Flu Viruses<sup>3</sup> on treated Hard, Nonporous Surfaces:]**

This product kills [99.9% of] common germs to help reduce the spread of germs between treated surfaces in high traffic areas and children's items. Disinfect cribs, high chairs, and washable colorfast hard, nonporous toys with this product: Wash, wipe or rinse items with water. -or- Prewash items[.] [then] disinfect with a solution of 1/2 cup of this product per gal[lon] of water. Allow surface to remain visibly wet for -or- Let stand 5 min[utes]. Rinse thoroughly and air dry.

## **Deodorizing Cat's Litter Box:**

Unpleasant cat box odors can be eliminated when this product is used to kill odor-causing germs. Wash litter box with sudsy water and rinse. Then wipe with a solution of 1/2 cup of this product per gal[lon] of water. Let solution stand 5 min[utes] before rinsing thoroughly.

## **Disinfecting Baby Furniture and Hard, Nonporous Toys -or- Hard, Nonporous Kid's Toys:**

Painted and enameled cribs, changing tables and high chairs, plastic mattress covers and bumpers, and washable colorfast hard, nonporous toys are disinfected quickly and easily with this product. Plus, this product kills [99.9% of] common germs, including those that cause odors. This product leaves baby's room clean and fresh smelling. Disinfect with a solution of 1/2 cup product in 1 gal[lon] of water. Allow surface to remain visibly wet for -or- Let stand 5 min[utes]. Rinse and allow to [air] dry. -or- For washable colorfast hard, nonporous toys, disinfect with a solution of 3/4 cup bleach in 1 gal[lon] of water. Allow surface to remain visibly wet for -or- Let stand 5 min[utes]. Rinse and allow to [air] dry.

## **Disinfect Pet Areas -and/or- Nonporous Toys -and/or- Accessories**

This product can disinfect your pet areas -and/or- nonporous toys -and/or- accessories. Disinfect with a solution of 1/2 cup product in 1 gal[lon] of water. [Pre-]wash surface, soak or wipe with bleach solution[. Allow solution to contact surface] for at least 5 min[utes]. Rinse well and air dry.

## **Eliminating Garbage Can Odors:**

This product can deodorize and sanitize your garbage cans by eliminating the bacteria that cause odors. Wash garbage cans with soapy water and rinse. Then to deodorize and sanitize, swish a solution of 1/2 cup of this product per gal[lon] of water over the inside of the can. Let the solution stand 5 min[utes] before rinsing.

## **Eliminating Refrigerator Odors:**

This product kills odor causing bacteria and leaves your refrigerator smelling fresh and clean. Use it inside and out. Remove food before using this product. Wash surfaces with a solution of 1/2 cup of this product per gal[lon] of soapy water. Allow surface to remain visibly wet for -or- Let stand 5 min[utes]. Rinse and then air dry interior surfaces a few min[utes] before replacing food.

## **Keep Christmas Trees Fresher Longer:**

To prolong the life of a fresh cut tree, instead of using plain water in the tree stand bowl, use a solution of 1 1/2 tsp -or- teaspoons product per 1/2 gal[lon] hot water, 1 cup corn syrup and 1/8 cup powdered chelated iron (available from local nurseries).

## **Keep Cut Flowers Fresh Longer:**

Fresh cut flowers will stay beautiful longer if you add 1/4 teaspoon -or- tsp of this product to each quart of cold water. This product can also be used to remove flower vase stains and odors. Wash the vase thoroughly and then fill with a solution of 1/2 cup bleach to (1) gal[lon] water. Let stand 5 min[utes] before rinsing.

**Keep Wading Pools Sanitary:**

As a general rule, use 5 tsp -or- teaspoons per 100 gal[lon]s of water. For example, an 8-f[oo]t diameter pool holding 1 f[oo]t of water would require 20 teaspoons -or- tsp -or- 3 [fl] oz of this product. To chlorinate, mix required amount of bleach with 2 gal[lons] of water and scatter over surface of empty pool. Fill remainder of pool with water. Empty small pools daily.

Before draining a treated wading pool, contact your local sanitary sewer and storm drain authorities and follow their discharge instructions. Do not discharge treated pool water to any location that flows to a gutter, storm drain or natural water body unless discharge is allowed by state and local authorities.

**Kitchen and Bathroom:**

Clean, disinfect and deodorize sinks, countertops, bathtubs, showers, floors, vinyl and glazed tile.

- 1) Wash, wipe or rinse items with water.
- 2) Apply disinfecting solution of 1/2 cup of this product per gal[lon] of water.
- 3) Allow surface to remain visibly wet for -or- Let stand 5 min[utes] before rinsing.
- 4) Rinse thoroughly and air dry.

**Removing Exterior Mold:**

Mold [growing] on washable and colorfast exterior surfaces of your home, like siding, tile roofs, sealed brick, stucco and patio stone can be easily removed using this product. First, hose surfaces to remove loose soil. Then apply a solution of 3/4 cup of this product per 1 gal[lon] of water to wet surfaces. Reapply the solution as needed to keep the area wet for 5 min[utes]. Rinse thoroughly to remove residue. [Avoid applying solution in direct sunlight or to unfinished wood.] Rinse quickly and thoroughly if solution comes in contact with aluminum window frames or gutters since metal corrosion may occur.

**Removing Mold and Mildew:**

[Mold and mildew in the bathroom can be removed easily and effectively using this product.] Simply wipe down surfaces using a solution of 3/4 cup of this product to each gal[lon] of warm water. Keep surface wet 5 min[utes]; then rinse thoroughly and wipe dry. -or- Simply wipe down surfaces using a solution of 1/2 cup of this product to each gal[lon] of warm water. Keep surface wet 10 min[utes]; then rinse thoroughly and wipe dry. Repeat, if necessary, on heavily soiled surfaces.

**Removing Patio Moss and Mildew Stains:**

Protect nearby plants and grass by watering area thoroughly before and after product use. Patio moss and mildew stains can be unsightly, slippery and dangerous. Hose patio to remove loose debris. Then use this product to remove moss and mildew stains by washing the area with a solution of 3/4 cup of this product to 1 gal[lon] of water. Reapply the solution as needed to keep the area wet for 5 min[utes]. Brush as needed to remove moss and then rinse thoroughly. [Do not use on painted wood.] Avoid excessive runoff near plants.

**Sanitize and Remove Stains from Kitchenware:**

Tough stains can be removed from china, dinnerware, dishes, plastic and glassware with this product. Plus, this product sanitizes as it cleans. Wash items thoroughly as you normally would. Then soak for 2 min[utes] in a solution of 2 tsp -or- teaspoons of this product to each gal[lon] of water. Then drain and air dry.

**Sanitize Pet's Food and Water Bowls -or- Pet Bowl:**

To sanitize pet food containers, wash bowls with detergent and rinse. Fill bowls with a solution of 2 tsp -or- teaspoons of this product -or- bleach per gal[lon] of water. Let stand 2 min[utes], drain and air dry.

**Sanitize Sealed Wooden Cutting Boards -or- Cutting Boards:**

- 1) Wash, wipe or rinse items with detergent and water.
- 2) Apply sanitizing solution of 2 Tablespoons -or- Tbsp of this product -or- bleach per gal[lon] of water.
- 3) Allow surface to remain visibly wet for -or- Let stand 2 min[utes].
- 4) Rinse all surfaces with a solution of 2 teaspoons -or- tsp of this product -or- bleach per gal[lon] of water.
- 5) Do not rinse or soak equipment overnight.

**Sanitizing Baby Items:**

Baby bottles and dishes can be easily sanitized using this product. Soak washed items for 2 min[utes] in a solution of 2 tsp -or- teaspoons of this product per gal[lon] of water; then drain dry.

**Spring Cleaning: [[For] Eliminating Bacteria that Cause Odors:]**

Sanitize and deodorize common items, such as sinks, garbage cans, and refrigerators by eliminating the bacteria that cause odors.

**Sinks:**

Wash, wipe or rinse items with water. Apply solution of 1/2 cup of this product per gal[lon] of water. Allow surface to remain visibly wet for -or- Let stand 5 min[utes] before rinsing. Rinse thoroughly and air dry.

**Garbage cans:**

Wash garbage cans with soapy water and rinse. Swish a solution of 1/2 cup of this product per gal[lon] of water over the inside of the can. Let the solution stand 5 min[utes] before rinsing.

**Refrigerators<sup>26</sup>:**

Remove food before using this product. Wash surfaces with a solution of 1/2 cup of this product per gal[lon] of soapy water. Allow surface to remain visibly wet for -or- Let stand 5 min[utes]. Rinse thoroughly and then air dry interior surfaces a few min[utes] before replacing food.

**Toilet Bowls:**

Disinfect and deodorize your toilet.

- 1) Flush toilet.
  - 2) Pour 1/2 cup of this product into bowl.
  - 3) Brush entire bowl, including rim, with a scrub brush or mop.
  - 4) Allow surface to remain visibly wet for -or- Let stand 5 min[utes] before flushing again.
-

**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**BACTERICIDAL EFFICACY**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

This product, when used as directed below, is effective against the following bacteria:

<b><i>Bacteria</i></b>	<b><i>ATCC and/or Strain</i></b>
Acinetobacter baumannii	[ATCC 19606]
Bordetella pertussis	[ATCC 12743]
Campylobacter jejuni	[ATCC 29428]
Carbapenem-Resistant Escherichia coli	[CDC 81371]
Community Associated Methicillin-Resistant Staphylococcus aureus [(CA-MRSA)]	[NARSA NRS123] [Genotype USA400]
Enterococcus faecalis	[ATCC 29212]
Escherichia coli O157:H7 [(E. coli)]	[ATCC 35150]
Extended Spectrum Beta Lactamase producing Escherichia coli [(ESBL producing E. coli)]	[ATCC BAA-196]
Haemophilus influenzae	[ATCC 10211]
Klebsiella oxytoca	[ATCC 13182]
Legionella pneumophila	[ATCC 33153]
Listeria monocytogenes	[ATCC 19117]
Methicillin-resistant Staphylococcus aureus [- (MRSA)]	[ATCC 33592]
[6] Multi-drug Resistant Enterococcus faecium	[ATCC 51559]
[7] Multi-drug resistant Klebsiella pneumoniae	
New Delhi Metallo-Beta Lactamase-1 (NDM-1) producing Enterobacter cloacae	[CDC 1000654]
New Delhi Metallo-Beta Lactamase-1 (NDM-1) producing Escherichia coli	[CDC 1001728]
Penicillin-resistant Streptococcus pneumoniae	[ATCC 700677]
Proteus mirabilis	[ATCC 9240]
Pseudomonas aeruginosa	[ATCC 15442]
Salmonella enterica	[ATCC 10708]
Serratia marcescens	[ATCC 14756]
Shigella dysenteriae	[ATCC 11835]
Staphylococcus aureus	[ATCC 6538]
Staphylococcus epidermidis [(Coagulase-negative staphylococci)]	[ATCC 12228]
Streptococcus pneumoniae	[ATCC 6305]
Streptococcus pyogenes	[ATCC 19615]
Vancomycin-Resistant Enterococcus faecalis [(VRE)]	[ATCC 51575]
Vibrio cholerae	[ATCC 11623]
Yersinia enterocolitica	[ATCC 23715]
<b>Spore-forming Bacterium</b>	<b><i>ATCC and/or Strain</i></b>
Clostridium difficile <sup>Y, [24]</sup> [(C. diff.)] spore	[ATCC 43598]

**Directions for Use:**

**Hard, Nonporous Surfaces:**

**To disinfect hard, nonporous surfaces:** [First] Clean surface by removing visible soil (loose dirt, debris, food materials, etc.). Use 1/2 cup of **this product** in 1 gal[lon] of water. -or- Prepare a 2,400 ppm available chlorine solution. [Use chlorine test strips to determine exact available chlorine concentration -or- verify the appropriate available chlorine concentration is achieved.] Thoroughly wet surface with the solution and allow it to remain on the surface for 5 min[utes]. Rinse with clean water and dry.

**For hospital -and/or- healthcare disinfection -or- To kill *Pseudomonas aeruginosa*:** [First] Clean surface by removing visible soil (loose dirt, debris, food materials, etc.) Use 1/2 cup of **this product** in 1 gal[lon] of water. -or- Prepare a 2,400 ppm available chlorine solutions. Use the Dilution Table to make the desired dilution. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Thoroughly wet surface with the solution and allow it to remain in contact with the surface for 5 min[utes]. Rinse with clean water and dry.

**To Sanitize Garbage Cans/Diaper Pails:** Preclean garbage can/diaper pail with a cleaning product prior to sanitization. Rinse with water and drain. Pour in 2,400 ppm available chlorine solution. [Use chlorine test strips to determine exact available chlorine concentration -or- verify the appropriate available chlorine concentration is achieved.] Allow surface to remain visibly wet for -or- Let stand [at least] 5 min[utes]. Rinse and air dry.

**Toilet Bowls:** Flush toilet to remove visible soil. Add 1/2 cup of bleach to the bowl and brush surfaces thoroughly, making sure to get under the rim. Allow surface to remain visibly wet for -or- Let stand 5 min[utes] before flushing again.

**Use Sites:**  
This product can be used on hard, nonporous surfaces in commercial, institutional, hospital premises (including kitchens, bathrooms, nurseries, sick rooms, laundry rooms), eating establishments, pet kennels and veterinary premises.

**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**VIRUCIDAL+ EFFICACY**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

This product, when used as directed below, is effective against the following viruses on hard, nonporous surfaces

<b><i>Viruses Enveloped</i></b>	<b><i>ATCC and/or Strain</i></b>
‡2009-H1N1 Influenza A Virus [(Novel H1N1)]	[Strain A/Mexico/4108/2009 CDC #2009712192]
‡Avian Influenza A Virus [(H3N2)]	[ATCC VR-2072] [Strain A/Washington/897/80 X A/Mallard/New York/6750/78]
‡Avian influenza [Type A] Virus (H5N1)	[Strain VNH5N1-PR8/CDC-RG CDC #2006719965]
‡Avian Influenza A (H7N9) Virus	[Strain wildtype A/Anhui/1/2013, CDC # 2013759189]
‡Cytomegalovirus	[ATCC VR-538] [Strain AD-169]
‡, ‡Ebola Virus	[Zaire-Kikwit]
‡Hantavirus	[(Prospect Hill Virus)]
‡Herpes Simplex Virus Type 1	[ATCC VR-733] [Strain F(1)]
‡Herpes Simplex Virus Type 2	[ATCC VR-734] [Strain G]
‡Human Coronavirus	[ATCC VR-740] [Strain 229E]
‡, ‡ Human Hepatitis B Virus (as duck HBV) [(HBV)]	
‡, ‡ Human Hepatitis C Virus (as Bovine Viral Diarrhea Virus) [(HCV)]	
‡, ‡ Human Immunodeficiency Virus Type 1 [(HIV-1)]	[Strain HTLV-IIIB]
‡Influenza A Virus [Influenza A2 Virus] [Flu Virus]	[ATCC VR-544, Strain Hong Kong]
‡Influenza B Virus	[ATCC VR-823] [Strain B/Hong Kong/5/72]
‡Measles Virus	[ATCC VR-24]
‡MERS (Middle Eastern Respiratory Syndrome)-Associated Coronavirus (MERS-CoV)	[CDC strain 200300592]
‡Mumps Virus	[Strain Jones, ATCC VR-1438]
‡Newcastle disease Virus	[ATCC VR-108] [Strain B1, Hitchner or Blacksborg]
‡Parainfluenza Virus [(Type 3)]	[ATCC VR-93] [Strain C243]
‡Respiratory Syncytial Virus [(RSV)] [(causes cold)]	[ATCC VR-26] [Strain Long]
‡Rubella Virus [(German Measles Virus)]	[ATCC VR-315] [Strain M-33]
‡SARS-associated Coronavirus	[CDC strain 200300592]
‡SARS-CoV-2 [(cause of COVID-19)]	[Isolate USA-WA1/2020, NR-52281]
‡Varicella Zoster Virus	[ATCC VR-1367]

<b>Viruses Large Non-Enveloped</b>	<b>ATCC and/or Strain</b>
‡Adenovirus [Type 2] [(causes cold)]	[ATCC VR-846] [Strain Adenoid 6]
‡Rotavirus	[Strain WA]
<b>Viruses Small Non-Enveloped</b>	<b>ATCC and/or Strain</b>
‡Canine Parvovirus <sup>4</sup>	[ATCC VR-2017] [Strain Cornell]
‡Coxsackievirus B3 Virus	[ATCC VR-30] [Strain Nancy]
‡Enterovirus EV-D68	[ATCC VR-561]
‡Feline Calicivirus [as surrogate for Norovirus]	[ATCC VR-782]
‡Feline Parvovirus <sup>4</sup> [(Feline panleukopenia Virus)]	[ATCC VR-648]
‡Hepatitis Type A Virus [(HAV)]	[Strain HM-175]
‡Murine Norovirus [as surrogate for Norovirus]	[Strain MNV-1.CW1]
‡Poliovirus [Type 1]	[ATCC VR-1562] [Strain Chat]
‡Rhinovirus [Type 37] [(a [common] cause of the common cold)]	[ATCC VR-1147, Strain 151-1]

**Directions for Use:**

**Hard, Nonporous Surfaces:**

**To disinfect hard, nonporous surfaces:** [First] Clean surface by removing visible soil (loose dirt, debris, food materials, etc.). Use 1/2 cup of *this product* in 1 gal[lon] of water. -or- Prepare a 2,400 ppm available chlorine solution. Use the Dilution Table to make the desired dilution. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Thoroughly wet surface with the solution and allow it to remain in contact with the surface for 5 min[utes]. Rinse with clean water and dry.

**To sanitize garbage cans/diaper pails:** Preclean garbage can/diaper pail with a cleaning product prior to sanitization. Rinse with water and drain. Pour in 2,400 ppm available chlorine solution. Use the Dilution Table to make the desired dilution. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Allow surface to remain visibly wet for -or- Let stand [at least] 5 min[utes]. Rinse and air dry.

**Toilet Bowls:** Flush toilet to remove visible soil. Add 1/2 cup of bleach to the bowl and brush surfaces thoroughly, making sure to get under the rim. Allow surface to remain visibly wet for -or- Let stand 5 min[utes] before flushing again.

**Use Sites:**

This product can be used on hard, nonporous surfaces in commercial, institutional, hospital premises (including kitchens, bathrooms, nurseries, sick rooms, laundry rooms), eating establishments, pet kennels and veterinary premises.

**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FUNGICIDAL EFFICACY**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

This product, when used as directed below, is effective against mold and mildew, *Aspergillus brasiliensis* and *Trichophyton interdigitale* **tested as** *Trichophyton mentagrophytes*.

**Directions for Use:**

**Hard, Nonporous Surfaces:**

**To disinfect hard, nonporous surfaces:** [First] Clean surface by removing visible soil (loose dirt, debris, food materials, etc.). Prepare a 2,400 ppm available chlorine solution. Thoroughly wet surface with the solution and allow it to remain on the surface for 10 min[utes]. Rinse with clean water and dry.

-or-

[First] Clean surface by removing visible soil (loose dirt, debris, food materials, etc.). Prepare a 3,600 ppm available chlorine solution. Thoroughly wet surface with the solution and allow it to remain on the surface for 5 min[utes]. Rinse with clean water and dry.

**Use Sites:** This product can be used on hard, nonporous surfaces in commercial, institutional, hospital premises (including kitchens, shower stalls, bathrooms, nurseries, sick rooms, laundry rooms), eating establishments, pet kennels and veterinary premises.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**CANDIDA ALBICANS EFFICACY**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

**Directions for Use:**

**Hard, Nonporous Surfaces:**

**To disinfect hard, nonporous surfaces:** [First] Clean surface by removing visible soil (loose dirt, debris, food materials, etc.). Use 1/2 cup of **this product** in 1 gal[lon] of water. -or- Prepare a solution of 2,400 ppm available chlorine solution. [Use the Dilution Table to make the desired dilution. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Thoroughly wet surface with the solution and allow it to remain in contact with the surface for 5 min[utes]. Rinse with clean water and dry.

**To disinfect diaper pails:** Preclean diaper pails with a cleaning product prior to sanitization. Rinse with water and drain. Pour in 2,400 ppm available chlorine solution. [Use the Dilution Table to make the desired dilution. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Allow surface to remain visibly wet for -or- Let stand [at least] 5 min[utes]. Rinse and air dry.

**Use Sites:**

This product can be used on hard, nonporous surfaces in commercial, institutional, hospital premises (including kitchens, bathrooms, nurseries, sick rooms, laundry rooms), eating establishments, pet kennels and veterinary premises.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**DISINFECTION AGAINST CLOSTRIDIUM DIFFICILE IN HEALTHCARE SETTINGS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.

Refer to container label for use precautions and further information.

Laboratory studies indicate that 1:10 diluted this product reduces *C. difficile* spores on surfaces by six logs in 3 -or- 5 min[utes]. Environmental disinfection interventions that include the use of 1:10 sodium hypochlorite for surface disinfection can reduce exposure to *C. difficile* from treated surfaces in healthcare settings.

**Special Instructions for Cleaning Prior to Disinfection against *Clostridium difficile* [endo]spores.**

**Personal Protection:** Wear appropriate barrier protection such as gloves, gowns, masks or eye covering.

**Cleaning Procedure:** Fecal matter/waste must be thoroughly cleaned from surfaces/objects before disinfection by application with clean cloth, mop and/or sponge saturated with diluted bleach solution. Cleaning must include vigorous wiping and/or scrubbing until visible soil is removed. Special attention is needed for high-touch surfaces. Surfaces in patient rooms must be cleaned in a consistent manner (for example right to left) with restrooms cleaned last. Do not reuse soiled cloths.

**Infectious Materials Disposal:** Cleaning materials used that may contain feces/waste must be disposed of immediately in accordance with local regulations for infectious materials disposal.

**Directions for Use:** [For] Killing *Clostridium difficile* [spores]: Add 1 part bleach to 9 parts water to achieve a 1:10 dilution (~7,800 ppm available chlorine) before use. Clean hard, nonporous surfaces by removing visible soil [loose dirt, debris, blood/bodily fluids, etc.]. Apply 1:10 solution and allow surface to remain visibly wet -or- let stand for 3 -or- 5 min[utes]. Rinse and air dry. Prepare fresh solution daily. [Avoid contact with surfaces that may be damaged by bleach.]

Do not use on non-stainless steel, aluminum, silver or chipped enamel.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**SPECIAL INSTRUCTIONS TO CLEAN AND DECONTAMINATE**  
**AGAINST HIV, HBV, and HCV ON SURFACES/OBJECTS**  
**SOILED WITH BLOOD/BODY FLUIDS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.

Refer to container label for use precautions and further information.

This product kills HIV-1, HBV, and HCV on precleaned hard, nonporous surfaces/objects previously soiled with blood/body fluids in health care settings (e.g. hospitals, nursing homes) or other settings in which there is an expected likelihood of soiling of hard, nonporous surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 [(HIV-1)] (associated with AIDS), [Human] Hepatitis B Virus (HBV), and [Human] Hepatitis C Virus (HCV).

**Personal Protection:** When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks, and eye coverings.

**Cleaning Procedure:** Blood and other body fluids must be thoroughly cleaned from surfaces and other objects before applying this product. Dilution and Contact time: Prepare a solution of 1/2 cup of bleach + 1 gal[lon] of water (at least 2,400 ppm available chlorine) and spray or flood surface; allow surface to remain visibly wet for -or- let stand 5 min[utes].

**Disposal of infectious materials:** Use disposable latex gloves, gowns, masks, and eye coverings. Blood and other body fluids must be autoclaved and disposed of according to local regulations for infectious waste disposal.

**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR CONTROLLING THE SPREAD OF PHYTOPHTHORA RAMORUM [CAUSE OF SUDDEN OAK DEATH] IN FORESTS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

When used as directed, this product is effective in controlling the spread of the invasive pathogen *Phytophthora ramorum* in forests. *P. ramorum* causes a fatal canker disease of several tree species and damages many other plant species.

Water is commonly drafted from streams and fire ponds within forested areas to use in dust abatement on forest roads, equipment cleaning and fire suppression. The use of infested water sources can spread *P. ramorum* to uninfested areas. Treating water prior to use helps control the spread of this pathogen.

**Directions for Use:** Add 3/4 gal[lon] of this product to 1,000 gal[lons] (~58 ppm available chlorine) of drafted water. Prepare the mixture at least 5 min[utes] prior to application for dust abatement, fire suppression, and cleaning vehicles and logging, road building, and maintenance equipment.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR PORT ORFORD CEDAR ROOT DISEASE (PHYTOPHTHORA LATERALIS) TREATMENT USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

When used as directed, this product is effective in controlling the spread of the fatal fungus *Phytophthora lateralis* [Port Orford Cedar Root Disease] in areas of California and Oregon where Port Orford Cedar (*Chamaecyparis lawsoniana*) grows.

Water is commonly drafted from streams and fire ponds within forested areas to use in dust abatement on forest roads, equipment cleaning and fire suppression. The water source can spread the root disease fungus to uninfested areas. Treating water prior to use helps control the spread of the fungus.

**Directions for Use:** Add 3/4 gal[lon] this product to 1,000 gal[lons] (~58 ppm available chlorine) of drafted water. Prepare the mixture at least 5 min[utes] prior to application for dust abatement, fire suppression and cleaning trucks, and logging, road building and maintenance equipment.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR ENCLOSURES AND EQUIPMENT USED FOR AMPHIBIAN CARE:**  
**SPECIAL INSTRUCTIONS FOR CONTROLLING THE SPREAD OF BACTRACHOCHYTRIUM DENDROBATIDIS**  
**(CHYTRID FUNGUS, FUNGAL PATHOGEN OF AMPHIBIANS)**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

**For Use on Hard, Nonporous Surfaces of Enclosures and Equipment:**

Use protective gloves and ventilate area.

- (1) Remove amphibians from area to be treated.
- (2) Mix 1 part of this product to 5.5 parts water (approximately 1.27% sodium hypochlorite) (12,000 ppm available chlorine).
- (3) Thoroughly clean and saturate surfaces for 5 min[utes].
- (4) Rinse thoroughly with water before placing amphibians in enclosures or in contact with equipment.

Note: All water used for cleaning enclosures and equipment must be treated with the bleach solution to avoid rinsing the Chytrid fungus down the drain or contaminating other surfaces.

**For Use on Hard, Nonporous Field Equipment:**

Any hard, nonporous equipment, that comes into contact with water must be treated with bleach to prevent the fungal pathogen from spreading to clean sites (see instructions above). Care must be taken to avoid environmental contamination when disinfecting in the field.

Note: All water used for cleaning equipment must be treated with the bleach solution to avoid spreading the Chytrid fungus.

**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**BALLAST WATER TREATMENT FOR CONTROL OF HARMFUL**  
**NON-INDIGENOUS AQUATIC ORGANISMS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

Use this product to treat ballast water taken up into marine vessels for the purpose of controlling potentially harmful non-indigenous aquatic organisms. Apply product to the ballast water directly to the ballast water tank(s) or by means of piping system [such as the Glosten company ballast responder]. The treatment system shall be engaged during the application to ensure adequate mixing of the product within the ballast water tank. During application, the concentration must be monitored to ensure that the free available chlorine (FAC) level does not exceed 20 mg/L as measured by a device such as a total residual oxidant (TRO) monitor. The product may be reapplied to the ballast water following initial dose, provided continued FAC monitoring. The ballast water must be held for a minimum of eighteen hours without neutralizing to ensure effective control of organisms and pathogens. Prior to ballast water discharge from the marine vessel into receiving waters, sodium thiosulfate or sodium sulfite is to be applied as needed to reduce FAC levels below the concentration required by the authorities of the discharge location

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR CLOSED-LOOP LAUNDRY DISPENSING SYSTEMS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

**FOR USE WITH [*Insert Dispenser Name*] APPROVED DISPENSING SYSTEM. Installation and service should only be performed by a [*Company Name*]: Laundry Expert.**

**To Disinfect Laundry:** Add enough of this product to reach 275 ppm (parts per million) available chlorine. Use a detergent. Ensure contact with bleach [solution] for 10 min[utes]. This product used according to the laundry use directions is effective against Staphylococcus aureus [(Staph)], Pseudomonas aeruginosa [(Pseudomonas)], Klebsiella pneumoniae, Hepatitis A Virus, Influenza Virus Type A2, Rhinovirus, and Rotavirus.

**To Sanitize Laundry:** Add enough of this product to reach 200 ppm (parts per million) available chlorine. Use a detergent. Ensure contact with bleach [solution] for 10 min[utes]. This product used according to the laundry use directions is effective against Staphylococcus aureus [(Staph)], Pseudomonas aeruginosa [(Pseudomonas)], Klebsiella pneumoniae, and Methicillin-Resistant Staphylococcus aureus [(MRSA)].

**[For use with 4 to 6 gallon buckets/containers as defined in the ASTM standard; see Child Hazard Drowning Pictogram text below:**



**NOTICE: CHILDREN CAN FALL INTO BUCKET AND DROWN. KEEP CHILDREN AWAY FROM BUCKET WITH EVEN A SMALL AMOUNT OF WATER.]**

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR SANITIZING AND/OR DISINFECTING HOSPITAL LAUNDRY**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

To disinfect laundry, add enough of this product to reach 275 ppm (parts per million) available chlorine. Use a detergent. Ensure contact with bleach [solution] for 10 min[utes]. [This product used according to these directions is effective against Staphylococcus aureus, Klebsiella pneumoniae, Pseudomonas aeruginosa, Hepatitis A Virus, Influenza Virus Type A2, Rhinovirus Type 37, Rotavirus.]

To sanitize laundry, add enough of this product to reach 200 ppm (parts per million) available chlorine. -or- Use 1/2 cup of this product per standard washer, 1 cup for extra large washers or heavily soiled loads. Use a detergent. Ensure contact with bleach [solution] for 10 min[utes]. This product used according to these directions is effective against Staphylococcus aureus [(Staph)], Klebsiella pneumoniae, Pseudomonas aeruginosa [(Pseudomonas)], and Methicillin-Resistant Staphylococcus aureus [(MRSA)].

**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR DISINFECTION OF FLOORS, WALLS, SHOWERS AND TOILETS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

**To disinfect floors, walls and showers:** For nonporous surfaces such as vinyl or ceramic glazed tile, clean surfaces to remove visible soil. Rinse surfaces thoroughly with a 2,400 ppm available chlorine solution. [Use the Dilution Table to make the desired dilution]. [Use chlorine test strips to quantify the available chlorine.] [If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Allow solution to remain on the surface for 5 min[utes]. Rinse. [Let air dry.]

**To disinfect toilets:** Flush toilet. Pour [3/4 cup of] bleach into bowl. Brush bowl [thoroughly], making sure to get under the rim and let solution stand for 10 min[utes] and flush again.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**DISINFECTING GUIDE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

This product—a germicide—is an 8.25% sodium hypochlorite solution containing approximately 7.85% available chlorine by weight. In addition to being a highly effective liquid chlorine bleach for laundering disinfecting, it is widely used in sanitation of poultry and livestock houses and equipment, dairies, creameries, restaurants and taverns, as well as for purification of drinking water and disinfection of water for swimming and wading pools.

**IMPORTANT: Always thoroughly mix with water as directed before using.**

Do not allow undiluted product to come in contact with any fabric. (If it does, rinse out immediately with clear, cold water.)  
Do not apply with natural sponge.  
Do not use on non-stainless steel, aluminum, silver, or chipped enamel.

If used on stainless steel [and other acceptable metals], let solution stand for **no more than 5 min[utes]**, and then rinsed off thoroughly with clear water; otherwise, it may slightly discolor and eventually corrode the metal.

If a metal sprayer is used to apply the solution, rinse sprayer thoroughly after use with clear water, and then oil the plunger.

SEPTIC TANK OPERATION is not affected by regular home and farm use of this product.

**TABLE OF LIQUID MEASURES**

3 tsp	=	1 Tbsp	=	1/2 [fl] Ounce -or- oz	=	1/16 Cup
16 Tbsp	=	8 [fl] Ounces -or- oz	=	1 Cup	=	1/2 Pint

For directions on sanitizing and disinfecting specific surfaces, write:

THE CLOROX COMPANY  
Consumer Services Department  
1221 Broadway, Oakland, California 94612-1888

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR ASPHALT OR WOOD ROOFS AND SIDINGS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

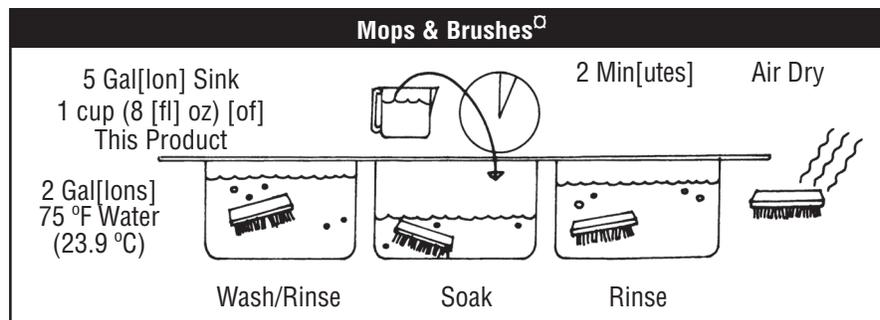
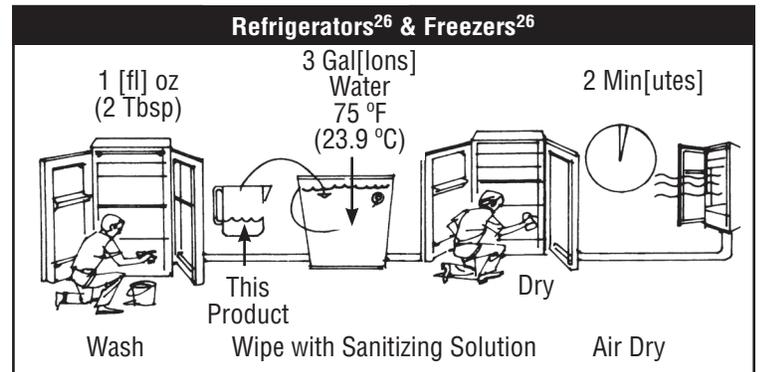
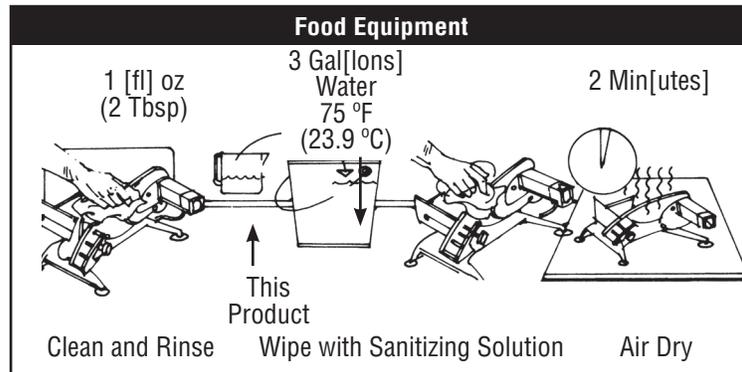
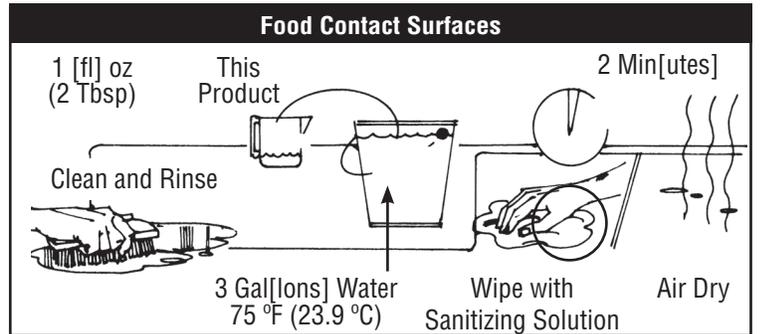
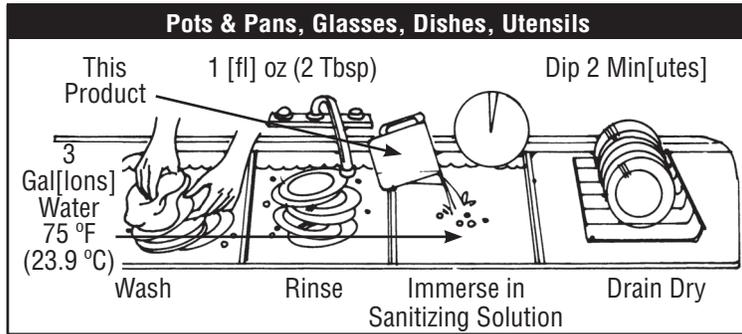
To control fungus and mildew, first remove all physical soil by brushing and hosing with clean water. Apply a 6,000 ppm available chlorine solution by brushing or spraying roof or siding. After 30 min[utes], rinse by hosing with clean water.

**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**HOW TO SANITIZE AND DISINFECT WITH THIS PRODUCT**

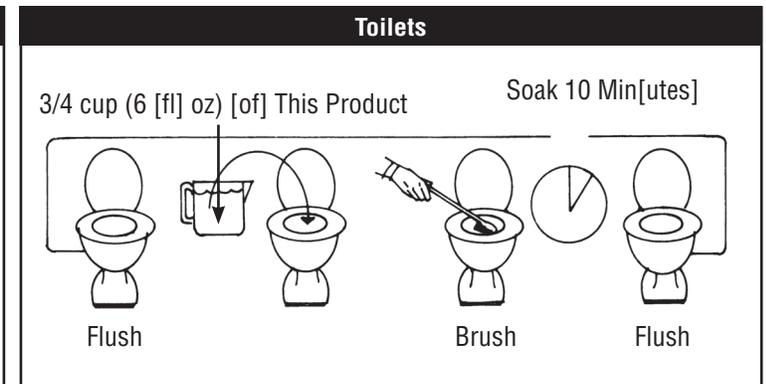
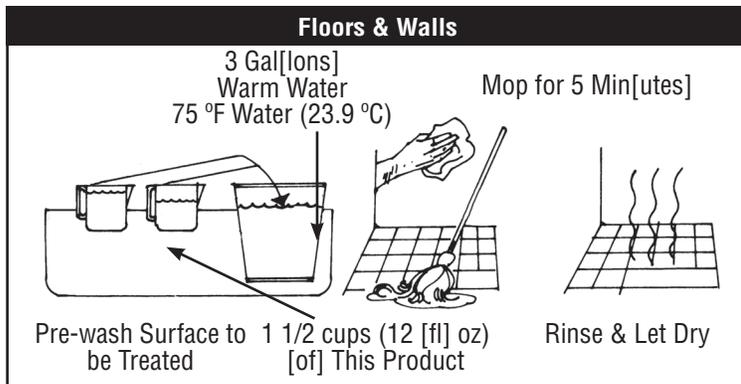
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
 Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
 Refer to container label for use precautions and further information.

[This product is] An effective multi-purpose sanitizer/disinfectant that kills many bacteria. Two -or- 2 teaspoons -or- tsp of this product in a gal[lon] of water is equivalent to 200 parts per million (ppm) available chlorine. **DO NOT** use this product full strength for cleaning surfaces. Always dilute strictly in accordance with the directions. For prolonged use, wear gloves.

**TO SANITIZE**



**TO DISINFECT**



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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**IN SANITATION OF RESTAURANTS AND TAVERNS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.

Refer to container label for use precautions and further information.

An unclean kitchen and contaminated food result in the hazards of contaminated surfaces. To help avoid this, it is important to keep all work surfaces, equipment and utensils hygienically clean. This product is a highly effective, economical and convenient germicide for this use in restaurants and taverns, as well as in the home.

**To sanitize work surfaces (not utensils):** After each use, scrub thoroughly with hot suds; rinse with clear, cold water. Then prepare a 200 ppm available chlorine sanitizing solution. Apply this solution 1 min[ute]. Air dry.

**To disinfect work surfaces (not utensils):** After each use, scrub thoroughly with hot suds; rinse with clear, cold water. Then prepare a 2,400 ppm available chlorine disinfecting solution. Apply this solution 5 min[utes]. Rinse with potable water. Air dry.

**To sanitize dishes, glassware, utensils:** Wash thoroughly; then soak 2 min[utes] in a 200 ppm available chlorine solution [made with hot water]. [Use the Dilution Table to make the desired dilution.] [Use chlorine test strips to quantify the available chlorine.] [If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Use chlorine test strips to adjust to 200 ppm available chlorine. Drain dry. (Do not use on non-stainless steel, aluminum, silver, or chipped enamel. Disinfect these by scalding.)

**To deodorize drain pipes:** Flush with very hot water followed by 1/2 cup of this product. Wait 5 min[utes]; flush out with clear water.

**To sanitize refrigerators<sup>26</sup>:** Remove food before using this product. First wash inside surfaces. Then wipe with a 200 ppm available chlorine solution made with warm water. Allow surface to remain visibly wet -or- Let stand for [at least] 2 min[utes]. Air dry. (Do not use on non-stainless steel, aluminum, silver, or chipped enamel.)

**Ice cream freezers<sup>26</sup> - to clean and sanitize:** After using, flush with warm water until water runs clear. Scrub or pressure-spray with solution prepared by thoroughly mixing 1 oz [regular -and/or- powdered] detergent with each gal[lon] of 450 ppm available chlorine solution. Rinse thoroughly with clean, clear water; drain. Immediately before use, sanitize for 2 min[utes] with a 200 ppm available chlorine solution; drain thoroughly.

**To disinfect hard, nonporous floors (plastic or ceramic tile):** Prepare a 2,400 ppm available chlorine solution. Mop or scrub. (Do not use on cork or linoleum.) Allow surface to remain visibly wet for -or- Let stand 5 min[utes]. Rinse.

**To sanitize brushes<sup>o</sup>, mops<sup>o</sup> and brooms<sup>o</sup>:** After using brushes, mops and brooms, wash thoroughly; then soak for 5 min[utes] in a 2,400 ppm available chlorine solution made with warm water. Rinse with clear water; dry. (Do not use on -or- with cellulose sponge mops.)

**Pails and dustpans:** Remove heavy dirt prior to cleaning. Wash with a 2,400 ppm available chlorine solution. Allow surface to remain visibly wet for -or- Let stand 5 min[utes]. Rinse with clear, cold water. Air dry.

**To deodorize and sanitize garbage cans:** Remove heavy dirt with a cleaner. Rinse. Pour in a 2,400 ppm available chlorine solution. Swab inside surfaces with this solution. Allow surface to remain visibly wet for -or- Let stand 5 min[utes]. Rinse with clear water; dry.

1/3 [fl] oz [of] this product [(2 tsp)]	+ One -or- 1 gal[lon] Water	= 200 ppm
4 [fl] oz [of] this product	+ One -or- 1 gal[lon] Water	= 2,400 ppm

**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**IN SANITIZING CYCLE OF CHEMICAL SANITIZING DISHWASHING MACHINES**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

This product is an approved sanitizing agent for use in the sanitizing cycle of chemical sanitizing dishwashing machines.

**Directions for Use:**

1. Hook up a Clorox® bleach [bottle] -or- **this product** bottle to the automatic bleach dispensing system of the chemical sanitizing dishwashing machine. If the bottle is already in place, make sure that sufficient product remains in the bottle to complete the dishwashing job.
2. Wash tableware in the machine following the manufacturer's operating instructions.
3. After the washing/rinsing/sanitizing cycles are completed, remove the dishwashing rack. Let stand 2 min[utes]. Allow the tableware to air dry.

**Caution:** Do not sanitize silverware or pewter with this product as these metals may darken.

**Bleach Dispensing System Adjustments**

The following steps must be followed before using a new chemical sanitizing dishwashing machine and on a regular basis thereafter:

- a. Start machine and let run until the machine has begun the final rinse cycle.
- b. Take a sample of the rinse water.
- c. Using a chlorine test kit, determine the parts per million (ppm) of available chlorine in the sample.
- d. If the ppm of available chlorine is lower than the minimum or higher than the maximum level of available chlorine permitted by local public health authorities, adjust the bleach dispensing system.
- e. Repeat steps "a" through "c" until a correct ppm of available chlorine is achieved.

Your equipment service representative or dishwashing detergent supplier will often make these adjustments for you.

**Correct Chlorine Concentration**

Local public health codes vary with regard to the parts per million of available chlorine permitted in the final rinse water of chemical sanitizing dishwashing machines. The minimum level is 50 ppm of available chlorine with a maximum level of 200 ppm, although some states require 100 ppm minimum level. Check with your local public health department on the applicable regulations for your area.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR CROP/SITE TREATMENT**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

**CROP/SITE: ASPARAGUS SEED TREATMENT**

Target Pest/Problem:

To aid in the prevention of asparagus root rot (*Fusarium oxysporum* and *F. asparagi*)

Dosage:

6,000 ppm available chlorine solution.

Dilution or Application Rate:

Use 1 gal[lon] of solution per pound of seed.

Method of Application:

Wash seed in solution for 40 min[utes], providing continuous agitation. After washing seed, spread and air dry.

Frequency/Timing of Applications:

1 application.

Preharvest Interval:

Preplant treatment.

Other Requirements:

Do not use treated seeds for food or feed. Allow to dry before storing, planting, or treating with other chemicals. Prepare fresh solution for each batch of seed.

**CROP/SITE: PEPPER SEED TREATMENT**

## Target Pest/Problem:

To aid in the prevention of bacterial spot (*Xanthomonas vesicatoria*)

## Dosage:

10,000 ppm available chlorine solution.

## Dilution or Application Rate:

Use 1 gal[lon] of solution per pound of seed.

## Method of Application:

Wash seed in solution for 40 min[utes], providing continuous agitation. After washing seed, spread to air dry.

## Frequency/Timing of Application:

1 application.

## Preharvest Interval:

Preplant treatment.

## Other Requirements:

Do not use treated seed for food or feed. Allow to dry before storing, planting, or treating with other chemicals. Prepare fresh solution for each batch of seed.

**CROP/SITE: TOMATO SEED TREATMENT**

## Target Pest/Problem:

To aid in the control of bacterial canker (*Corynebacterium michiganense*) and tobacco mosaic virus (TMV).

## Dosage:

10,000 ppm available chlorine solution.

## Dilution or Application Rate:

Use 1 gal[lon] solution per pound of seed.

## Method of Application:

Wash seed in solution for 40 min[utes], providing continuous agitation. After washing seed, spread to air dry.

## Frequency/Timing of Application:

1 application.

## Preharvest Interval:

Preplant treatment.

## Other Requirements:

Do not use treated seed for food or feed. Allow to dry before storing, planting, or treating with other chemicals. Prepare fresh solution for each batch of seed.

**CROP/SITE: RICE SEED TREATMENT**

## Target Pest/Problem:

For prevention of bakanae disease *Fusarium fujikuroi* [syn *F. moniliforme*] -or- *Gibberella fujikuroi*

## Dosage:

3,000 ppm available chlorine solution.

## Dilution or Application Rate:

4 gal[lons] of solution per 96 gal[lons] water.

## Method of Application:

Using a thoroughly pre-mixed solution, soak seed for two -or- 2 hours then drain solution and replace with fresh water. Continue seed soaking and draining as usual. Do not apply undiluted product directly to seed.

## Dosage:

1,500 ppm available chlorine solution.

Dilution or Application Rate:

2 gal[lons] solution per 98 gal[lons] of water.

Method of Application:

Using a thoroughly pre-mixed solution, soak and drain seed as usual (no rinse required). Do not apply undiluted product directly to seed.

Frequency/Timing of Applications:

1 application during preplant soaking of seed.

Pre-harvest Interval:

Preplant treatment.

Other Requirements:

Do not use treated seeds for food or feed. Prepare fresh solution for each batch of seed.

***The below language applicable to any seed treatment listed above***

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear coveralls worn over long-sleeved shirt and long pants, chemical-resistant footwear, chemical-resistant gloves made of any waterproof material, rubber boots plus socks and protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### **ENGINEERING CONTROLS STATEMENTS**

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the worker protection standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.]

THIS LABEL MUST BE IN POSSESSION OF THE USER.

REFER TO THE MAIN LABEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

### **USER SAFETY REQUIREMENTS**

#### **USERS MUST:**

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the worker protection standard, 40 CFR, part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the worker protection standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the worker protection standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls worn over long-sleeved shirt and long pants, chemical-resistant footwear, chemical-resistant gloves made of any waterproof material, rubber boots plus socks, and protective eyewear.

**PPD PUMA (EPA Reg. No. 67619-32)**

**[REGISTERED AS *Insert Registered Alternate Brand Name*]**

**PLANT PARASITIC NEMATODES AND PLANT DISEASE-CAUSING FUNGI QUARANTINE USE DIRECTIONS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Labeling must be in possession of user at time of application. Read and follow label affixed to the container.

Refer to container label for use precautions and further information.

<b>Crop/Site/Commodity:</b>	1. Walks, benches, tools, plant containers in nurseries and other quarantine areas 2. Farm equipment and machinery 3. Laboratory work areas, equipment and specimens 4. Deciduous fruit tree nursery stock (dormant)
<b>Target Pest/Problem:</b>	Plant parasitic nematodes, plant disease-causing fungi and general surface disinfection
<b>Dosage:</b>	See dilution rate.
<b>Dilution or Application Rate:</b>	Eight -or- 8 parts water with one -or- 1 part this product (equals approximately 0.92% active ingredient)
	<b>Laboratory work areas, equipment and specimens:</b> Prepare a solution of seven -or- 7 or eight -or- 8 parts water to one -or- 1 part product. Scrub areas and implements thoroughly, then wipe or allow to dry naturally. Workers doing the treatment must wear waterproof gloves. Small tools or implements and other items covered above may be immersed for 5 to 10 min[utes] in the solution instead of scrubbing manually. Wipe off plant tissue or soak tissue in the solution.

<b>Deciduous Fruit Tree Nursery Stock:</b>	Seven -or- 7 parts water with one -or- 1 part product [equals approximately 1% active ingredient]) -or- Eight -or- 8 parts water with one -or- 1 part product [equals approximately 0.92% active ingredient]
<b>Method of Application:</b>	Drench and dip method
<b>Deciduous Fruit Tree Nursery Stock:</b>	1. Thoroughly clean all soil from roots. 2. Dip entire tree root system in solution for 30 to 45 sec[onds]. 3. Immediately rinse tree root system with clean water upon removal from dip solution.
<b>Frequency/Timing of Applications:</b>	As needed
<b>Deciduous Fruit Tree Nursery Stock:</b>	One application at harvest (tree-digging period)
<b>Field Reentry After Application:</b>	Not applicable
<b>Preharvest Interval:</b>	Not applicable
<b>Other Requirements:</b>	Do not apply through any type of irrigation system.
<b>Deciduous Fruit Tree Nursery Stock:</b>	Workers required to wear eye protection and waterproof gloves.

**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**KARNAL BUNT QUARANTINE TREATMENT USE DIRECTIONS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

<b>Crop/Site/Commodity:</b>	Tools, conveyances, mechanized farm equipment, seed conditioning or milling equipment, soil moving equipment, or grain elevators and structures used for storing and handling grain
<b>Target Pest/Problem:</b>	Karnal bunt ( <i>Tilletia indica</i> )
<b>Dosage:</b>	See dilution rate.
<b>Dilution Rate:</b>	Mix 1 part this product to 4 parts water (equals approximately 1.65% active ingredient).
<b>Method of Application:</b>	Before treating remove all soil and plant debris. The dilute solution of sodium hypochlorite will be used to wet the point of runoff surfaces potentially exposed to the pathogen. Saturate any soil removed by the treatment with the solution. Wash down the equipment or site thoroughly with clean water after 15 min[utes] to minimize corrosion.
<b>Crop/Site/Commodity:</b>	Wheat and triticale germplasm for research or seed increase use. Commodities may not be used for food, feed or oil purposes.
<b>Target Pest/Problem:</b>	Karnal bunt ( <i>Tilletia indica</i> )
<b>Dosage:</b>	See dilution rate.
<b>Dilution Rate:</b>	Mix 1 part this product to 4 parts water (equals approximately 1.65% active ingredient) with 2mL/L Tween added.
<b>Method of Application:</b>	Treat seed with the dilute solution and agitate for 10 min[utes] at room temperature. Follow seed treatment by a 15 min[ute] rinse with clean, running water, then drying of the seed.
<b>Additional Restrictions, User Precautions and Requirements:</b>	Be sure treated surfaces are dry before handling. Read and follow precautionary statements on product label.

**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**CITRUS CANCKER TREATMENT USE DIRECTIONS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

<b>Crop/Site/Commodity:</b>	T511-1 Citrus and other Rutaceous seeds from citrus canker countries
<b>Target Pest/Problem:</b>	Xanthomonas axonopodis, pv. citri (citrus canker)
<b>Dosage:</b>	See dilution rate.
<b>Dilution Rate:</b>	Mix 1 part of this product to 12 parts water (equals approximately 0.63% active ingredient).
<b>Method of Application:</b>	T511-1 seeds shall be treated for possible infection with citrus canker bacteria by first washing seeds if any mucilaginous materials are adhering. Next, immerse the seeds in water at 125°F (or higher) for 10 min[utes]. Then immerse seeds for a period of at least 2 min[utes] in a 0.6% sodium hypochlorite solution. Drain, dry and repack near original moisture content.

**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**SOUTHERN SEA OAT SEEDS (*UNIOLA PANICULATA*)**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
 Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
 Refer to container label for use precautions and further information.

<b>Crop/Site/Commodity:</b>	Southern sea oat seeds ( <i>Uniola Paniculata</i> )
<b>Target Pest/Problem:</b>	Plant disease-causing bacteria and fungi
<b>Dilution of Product:</b>	Mix 1 part of this product to 2 parts water (27,500 ppm).
<b>Method of Application:</b>	Soak seeds in solution for 15 min[utes], rinse with tap water and allow to dry at 21°C (70°F) for 30 min[utes]. Store in cool dry location prior to germination.
<b>Frequency/Timing of Application:</b>	Treat seeds prior to germination.
<b>Precautions:</b>	As sodium hypochlorite is corrosive to many metals, chains and other machine parts must be either plastic or plastic coated and must be rinsed with clear water after use of product. Do not mix full-strength product or treatment solution with any other agricultural chemical, ammonia, or acid. Read and follow precautionary statements on product label.
<b>NOTE:</b>	DO NOT USE TREATED SEED FOR FOOD OR FEED. Use bleach treatment only on crops and for the purposes listed. Apply only as specified above.

**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**ALFALFA SEED TREATMENT**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Labeling must be in possession of user at time of application. Read and follow label affixed to the container. Refer to container label for use precautions and further information.

To treat alfalfa seeds against *Escherichia coli* O157:H7 [(*E. coli*)] -and/or- *Salmonella* spp. -and/or- *Salmonella enteritidis* [(*Salmonella*)], dilute to 19,000 ppm by adding 1 part of this product to 2 parts of water. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved. Let stand [for] 20 min[utes].

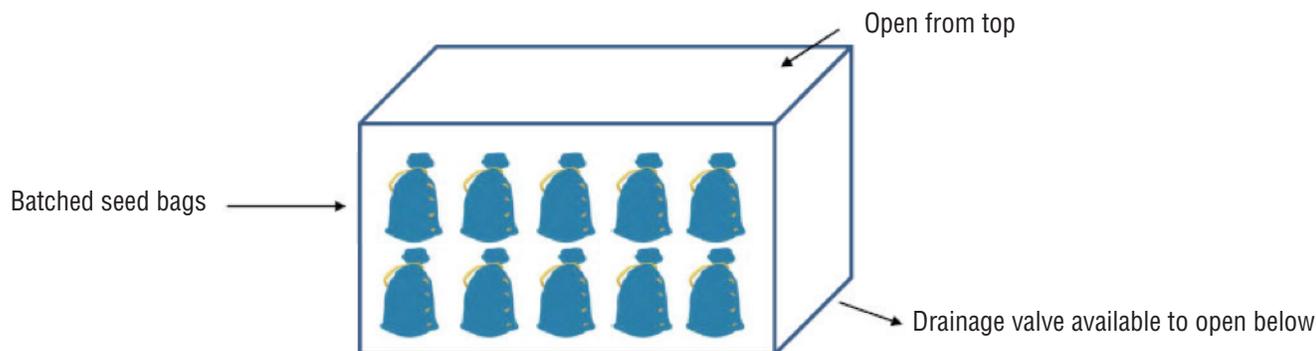
**Seed Treatment Procedure**

**1. Pre-germination Seed Soak**

Soaking results in swelling and softening of the seed coat, promoting the sprouting process. Pre-germination seed soaking is not required for this treatment process. If seed soaking practices are used, it is recommended that all materials are cleaned and sanitized, in addition to ensuring that the water used meets the microbial quality criterion in 21 CFR [(Code of Federal Regulations)]<sup>§ 112.44(a)</sup>.

**2. Seed Batching**

Seed should be batched in similar weight portions using suitable materials such as mesh bags, bins or trays (following proper cleaning and sanitizing practices). The batching material chosen by the sprouting manufacturer should ensure that proper fluid access to and drainage from the seed batches is sufficient. The following schematic provides an example of seed batching using mesh food bags contained within large bin to carry out the process:



### 3. Preparation of Treatment Solution

This product should be prepared to a final concentration level of 19,000 ppm sodium hypochlorite in a volume of water sufficient to fully submerge all batched seed. It is recommended that the actual available chlorine level is obtained by titration just before the treatment procedure.

### 4. Seed Treatment and Post-rise

Seed batches should be immersed into the treatment solution and mixed throughout the contact time (20 min[utes]) either by manual “dunking” of the mesh seed bags or rotating the bins/trays. At the end of the contact time, seeds should be rinsed with pure water. The rinse step is to be carried out immediately after the treatment step, with the seeds batched and fully immersed in a volume water sufficient to completely submerge the seed. These steps should be carried at room temperature.

### 5. Quality Control Measures

It is recommended that the sprouting facility take appropriate measures to ensure that the seed treatment process is carried out as described and using all materials that meet the microbial quality criterion (i.e. water quality). Additionally, the final concentration of the available chlorine level and analysis of rinse water from the treatment step should be routinely carried out to ensure the treatment process is effective.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR FRUIT & VEGETABLE WASHING**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

Thoroughly clean all fruits and vegetables in a wash tank. Prepare a sanitizing solution of 25 ppm available chlorine. After draining the tank, submerge fruit or vegetables for 2 min[utes] in a second wash tank containing the recirculating sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging. Rinse fruit with potable water only prior to packaging.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**AS A FUNGICIDE FOR SEED POTATOES**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

This product is fungicidal to the Verticillium wilt organism *V. albo-atrum* (microsclerotial type) on seed potatoes. A bleach solution of this product is applied to whole seed and freshly cut seed potato pieces during the cutting operation for planting. [Research at the Washington State University Irrigated Agriculture Research and Extension Center<sup>15</sup> has shown that treatment with a sodium hypochlorite solution helps to prevent the spread of organisms to uninfected soil or fields via seed potato surfaces.]

### Use Instructions

Thoroughly mix a solution of 6,000 ppm available chlorine for spraying. Use this solution to spray freshly cut seed potato pieces from the top and bottom of the cutting chain or elevator with a series of non-mist nozzles at 3 to 5 psi. Thoroughly cover all cut and uncut surfaces with the solution. The treatment will be most effective on clean seed tubers, as the organic matter in soil will reduce the effectiveness of the sodium hypochlorite.

Plant within four hours of the cutting and bleach treatment operation. If planting is delayed, store the treated seed in clean, open, well-ventilated bins or truck beds. Storing cut, wet seed in large unventilated containers will contribute to secondary breakdown from soft rot organisms.

### Safety Precautions

Do not mix full-strength product or treatment solution with any other agricultural chemical, ammonia, or acid. Avoid prolonged contact of this product with skin. Wear safety glasses. If full strength or diluted bleach is splashed in the eyes, flush with water.

Conduct the spraying operations either outside, in a well-ventilated building, or under a hooded exhaust system. Use non-misting nozzles to avoid breathing of mist. Wear a face mask and plastic or rubber gloves and clothing. Because sodium hypochlorite is corrosive to many metals, chains and other machine parts should be either plastic or plastic-coated and rinsed with clear water after use.

**NOTE:** DO NOT USE THE TREATED SEED FOR FOOD OR FEED. Use the bleach treatment only on crops and for the purposes recommended. Apply only as specified above. Do not apply in a dipping operation or bleach solution may become contaminated with soil and organic matter from the potato surfaces and lose its effectiveness.

**[REGISTERED AS *Insert Registered Alternate Brand Name*]  
FOR MEAT AND POULTRY PROCESSING WATER**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

This product may be used in processing water of meat and poultry plants at concentrations up to 5 ppm (parts per million) calculated as available chlorine. Chlorine may be present in poultry chiller intake water, in water for reprocessing poultry carcasses internally contaminated with feces, and in red meat carcass final wash water at concentrations between 25 and 50 ppm calculated as available chlorine. Use Chlorine Test Strips to adjust to desired available chlorine level. -or- Use the Dilution Table to make the desired dilution. [Use chlorine test strips to quantify the available chlorine.] [If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Chlorine must be dispensed at a constant and uniform level and the method or system must be such that a controlled rate is maintained. Do not recirculate or re-use processing water.

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**PPD PUMA (EPA Reg. No. 67619-32)  
[REGISTERED AS *Insert Registered Alternate Brand Name*]  
FOR SANITIZING SOLUTIONS FOR EQUIPMENT AND UTENSILS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

This product is authorized for use as a sanitizing solution in official establishments operating under the USDA meat, poultry, shell egg grading and egg products inspection programs.

Before using this product, food products and packaging materials must be removed from the room or kept protected.

Before they are treated with a bleach solution, the food processing equipment and utensils must be thoroughly washed and then rinsed with clear, cold water.

The bleach solution used for sanitizing must not exceed 200 ppm (parts per million) available chlorine. (Use chlorine test strips to adjust to 200 ppm available chlorine.) -or- Use the Dilution Table to make the desired dilution. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] The bleach solution must be applied by spraying, soaking or scrubbing. Treated surfaces must remain wet for at least 2 -or- two min[utes].

A potable water rinse is not required, provided the equipment and utensils are adequately drained before they come into contact with food. Little or no residue must remain to adulterate or otherwise affect edible products.

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**PPD PUMA (EPA Reg. No. 67619-32)  
[REGISTERED AS *Insert Registered Alternate Brand Name*]  
FOR MEAT & POULTRY PLANT LAUNDRY USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

This product may be used on fabric which contacts meat or poultry products directly or indirectly, provided that the fabric is thoroughly rinsed with potable water at the end of the laundering operation.

To sanitize laundry, add enough of this product to reach 200 ppm (parts per million) available chlorine (3/4 cup of bleach per standard washer, 1 cup for extra large washers or heavily soiled loads). Use a good detergent. For best results, dilute bleach with a quart of water and add to wash 5 min[utes] after the wash has begun -or- For best results, add to wash 5 min[utes] after wash cycle has begun. Use chlorine test strips to adjust to exactly 200 ppm available chlorine. -or- Use the Dilution Table to make the desired dilution. [Use chlorine test strips to quantify the available chlorine.] [If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.]

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**SANITATION IN CARE OF SWINE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

**Hog houses and farrowing houses - To clean and disinfect:**

- (1) Remove loose dirt, litter and debris. Dirty or coated surfaces cannot be disinfected.
- (2) Mix 1 oz [powdered] detergent with each gal[lon] of 2,400 ppm available chlorine solution until detergent is dissolved.<sup>5</sup> Let stand for [at least] 5 min[utes].
- (3) Scrub or pressure-spray all surfaces with this solution. Rinse with clear, cold water.
- (4) Allow to dry before housing pigs.

Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stall chutes and other facilities occupied or traversed by animals. Empty all troughs, feeding and watering appliances. Thoroughly clean all surfaces with soap or detergents and rinse with water.

Ventilate buildings, cars, boats and other closed spaces. Do not house livestock, poultry or employ equipment until chlorine has dissipated. All treated feed racks, mangers, troughs, automatic feeders, fountains and waterers must be rinsed with potable water before reuse.

**Clean metal watering troughs and feeders** by pressure-spraying or scrubbing with solution prepared by thoroughly mixing 1 oz [powdered] detergent with each gal[lon] of 2,400 ppm available chlorine solution.<sup>3</sup> Allow surface to remain visibly wet -or- Let stand for [at least] 5 min[utes]. Rinse thoroughly with clear, cold water; drain dry. (Clean drinking troughs and feeders before housing pigs.)

**Disinfect metal watering troughs and feeders** by pressure-spraying or scrubbing with solution of 2,400 ppm available chlorine solution. Allow surface to remain visibly wet -or- Let stand for [at least] 5 min[utes]. Rinse thoroughly with clear, cold water; drain dry. (Disinfect drinking troughs and feeders before housing pigs, and as often as necessary to keep sanitary.)

**To sanitize drinking water:** Prepare a 5 ppm available chlorine solution using clear water. (Water containing suspended material is difficult to sanitize.)

**NOTE:** Clean metal surfaces can be sanitized using the above method. Wooden surfaces are difficult to sanitize by any method.

Use chlorine test strips to adjust to desired available chlorine level. -or- Use the Dilution Table to make the desired dilution. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.]

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR POULTRY CARE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

Keeping poultry healthy, productive and profitable is largely a problem of disease prevention. Remedial measures are much more difficult and often less successful than preventing the spread of disease before it infects the flock. Regular use of this product in the sanitation and disinfection of chicken houses, brooders, and other poultry equipment is an effective aid in preventing many diseases of bacterial and viral origin.

**To sanitize drinking water:** Prepare a 5 ppm available chlorine solution using clear water. Let stand 1 min[ute]. Use in glass, porcelain, stoneware or concrete containers. Clean containers daily; rinse.

For young chicks, prepare a 2 ppm available chlorine solution since baby chicks do not soil the water as rapidly as grown chickens, and the solution retains its effectiveness longer.

When cleaning drinking water containers, etc., an 1,800 ppm available chlorine solution is effective in removing the slime. **DO NOT ALLOW BIRDS TO DRINK THIS SOLUTION.**

**To disinfect poultry houses, brooders, hatcheries:** Clean and disinfect poultry houses between cycles. Clean hatcheries weekly or as necessary to keep sanitary. Metal surfaces can be satisfactorily disinfected. Wooden surfaces are difficult to sanitize by any method.

(1) Remove all litter, loose dirt and debris.

(2) Prepare a 2,400 ppm available chlorine solution. [Use the Dilution Table to make the desired dilution.] Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.]

(3) Using this solution, scrub or pressure-spray all exposed areas, including floor, walls, ceiling posts and support beams. Allow surface to remain visibly wet for -or- Let stand for 5 min[utes].

(4) Rinse with clean, clear, cold water.

(5) Let dry thoroughly before introducing poultry.

**Metal incubators, feeders, water containers, other poultry equipment and utensils - To clean:** Remove loose dirt and debris. Scrub or pressure-spray with solution of 1 oz [powdered] detergent thoroughly mixed with each gal[lon] of 2,400 ppm available chlorine solution.<sup>12</sup> [Use the Dilution Table to make the desired dilution.] Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Allow surface to remain visibly wet -or- Let stand for [at least] 5 min[utes]. Rinse with clear, **cold** water. Let dry.

**Metal incubators, feeders, water containers, other poultry equipment and utensils - To disinfect:** Remove loose dirt and debris. Scrub or pressure-spray with a solution of 2,400 ppm available chlorine solution. [Use the Dilution Table to make the desired dilution.] Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.] Allow surface to remain visibly wet -or- Let stand for [at least] 5 min[utes]. Rinse with clear, cold water. Let dry.

**For continuous washers,** prepare washing solution as above. Add an additional 1/2 [fl] oz of detergent per every 4 gal[lons] of 50 ppm available chlorine solution every 30 min[utes]. Dump wash tank and recharge every 2 hours. **For manual method,** soak eggs for only 1 to 2 min[utes]. Agitate basket. Make sure eggs are completely covered.

Air-dry eggs as rapidly as possible. Store in cool (55 °F) room. Maintain relative humidity of 60-80%.

**NOTE:** Keep egg-washing equipment sanitary. Frequent cleaning will aid in operation and produce more sanitary eggs. While equipment is idle, bacteria can multiply. This contamination can be reduced by thoroughly flushing all equipment immediately before use with a solution of 200 ppm available chlorine.

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### PPD PUMA (EPA Reg. No. 67619-32)

[REGISTERED AS *Insert Registered Alternate Brand Name*]

### SPECIAL INSTRUCTIONS FOR INACTIVATING AVIAN INFLUENZA A VIRUS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Labeling must be in possession of user at time of application. Read and follow label affixed to the container.

Refer to container label for use precautions and further information.

FOR INACTIVATION OF AVIAN INFLUENZA A VIRUS IN POULTRY HOUSES, BROODERS, HATCHERIES:

1. Remove all poultry or animals and feeds from the premises, trucks, vehicles, coops, crates and enclosures.
2. Remove all litter and manure or droppings from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals or poultry.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Mix 1 part of this product with 31 parts water. Saturate all surfaces with the disinfecting solution for 5 min[utes].
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
7. Ventilate buildings, coops, and other closed spaces. Do not house livestock or poultry or employ equipment until treatment has been absorbed, set, or dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with

potable water before reuse.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**IN CARE OF LIVESTOCK, HORSES, PETS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

**To clean barns, stables, hutches, kennels:** Remove all litter, loose dirt and debris. Prepare a 2,400 ppm available chlorine solution. Using the solution, thoroughly scrub or pressure-spray all exposed areas including floor, walls, ceiling posts and support beams. Allow surface to remain visibly wet -or- Let stand for [at least] 5 min[utes]. Rinse with clean, clear, **cold** water. Let area dry thoroughly before housing animals.

**Loading and hauling equipment:** Loading chutes, trucks, trailers and other equipment for transportation of animals must be cleaned and disinfected prior to use. Pressure-spray or scrub with solution prepared by thoroughly mixing 1 oz [powdered] detergent with each gal[lon] of 2,400 ppm available chlorine solution.<sup>5</sup> Allow surface to remain visibly wet -or- Let stand for [at least] 5 min[utes]. Rinse with clean, clear, **cold** water. Allow to dry before use.

**Feeders and drinking water containers - to clean:** Thoroughly scrub or pressure-spray with solution of 1 oz [powdered] detergent mixed with each gal[lon] of 2,400 ppm available chlorine solution.<sup>5</sup> Allow surface to remain visibly wet -or- Let stand for [at least] 5 min[utes]. Rinse thoroughly with clear, **cold** water; allow to drain dry. (DO NOT LET ANIMALS DRINK THIS SOLUTION.)

**Feeders and drinking water containers - to disinfect:** Thoroughly scrub or pressure-spray with solution of 2,400 ppm available chlorine solution. Allow surface to remain visibly wet -or- Let stand for [at least] 5 min[utes]. Rinse thoroughly with clear, cold water; allow to drain dry. (A solution of 1,800 ppm available chlorine is effective in removing slime which sometimes forms on drinking water containers. DO NOT LET ANIMALS DRINK THIS SOLUTION.)

**To sanitize animals' drinking water:** Prepare a 5 ppm available chlorine solution using clear water. Use in glass, plastic, porcelain or concrete containers daily. (See directions above.)

[Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.]

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR FOOD EGG SANITIZATION**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

**To sanitize food eggs:** Thoroughly clean all eggs. Prepare a 200 ppm available chlorine solution. Ensure contact with bleach [solution] for 10 min[utes]. The sanitizer temperature must not exceed 130°F. Spray the warm sanitizer so that the eggs are completely wet. Allow the eggs to fully dry before casing or breaking. Do not apply a potable water rinse. The solution must not be re-used to sanitize eggs.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR DAIRY AND CREAMERY EQUIPMENT SANITATION**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

This product is effective as a chemical sanitizer of milk utensils, containers and equipment. This product dissolves milk solids and other protein material and is a quick and effective deodorizer.

An exposure period of at least 2 min[utes] to a 200 ppm available chlorine solution must be maintained when the solution temperature is 75°F. Use chlorine test strips to adjust solution to desired strength. -or- Use the Dilution Table to make the desired dilution. [Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.]

You must clean out large deposits of milk or other organic matter before applying this product/water solution. A sharp decline in the available chlorine content of the solution following circulation through milk processing equipment is usually regarded as evidence of inadequate cleaning of the equipment. If this occurs, investigate promptly.

**METAL TEAT CUPS AND TUBES** - Before each milking, prepare a 200 ppm available chlorine sanitizing solution. Dip teat cups into this solution before transferring them from one cow to another.

**To sanitize:** After each milking, rinse cups and tubes with cold water. Wash in detergent solution; rinse in a 200 ppm available chlorine solution for 2 min[utes]; drain thoroughly and dry before using. **(Do NOT leave metal cups in bleach solution.)**

**To clean and sanitize milking machines and utensils:** Immediately after milking, flush equipment with clean, lukewarm water. Dismantle equipment after each milking and wash it (including all rubber parts and stanchion hoses) and all utensils with a solution prepared by thoroughly mixing 1 oz of your [regular -and/or- powdered] detergent with each gal[lon] of a 200 ppm available chlorine solution. Water temperature must be 100°F to 130°F. **(DO NOT MIX THIS PRODUCT WITH ACID CLEANERS OR MILK STONE REMOVERS.)** Rinse equipment and utensils thoroughly with clean, clear water; drain. Air dry. **Immediately before use, sanitize according to directions shown below.**<sup>13</sup>

**Cleaning in place - bulk storage tanks, dairy pipelines, transfer stations:** Immediately after emptying milk, flush surfaces with a large volume of clear, lukewarm water until water runs completely clear. Thoroughly mix solution of 1 oz of your [regular -and/or- powdered] detergent with each gal[lon] of a 200 ppm available chlorine solution. Use hot water if available, and maintain the temperature of the solution at 120-160°F throughout the entire circulation. **(DO NOT USE THIS PRODUCT WITH ACID CLEANERS OR MILK STONE REMOVERS.)** Circulate the sanitizing solution through the system for 10 to 15 min[utes]. (Brush-wash with solution all parts not coming in contact with solution as it circulates.) Rinse thoroughly with clean, clear water; allow to drain. Air dry. Seal this equipment to help protect against contamination. **Immediately before use, sanitize according to directions shown below.**<sup>5</sup>

**Separators, strainers, milk cans, pails, churns, pasteurizers - To clean and sanitize:** After using, rinse immediately with clear, cold water; then scrub or pressure-spray with solution of 1 oz of your [regular -and/or- powdered] detergent thoroughly mixed with each gal[lon] of 200 ppm available chlorine solution. Rinse with clean, clear water; drain thoroughly. Air dry. **Immediately before use, sanitize according to directions shown below.**<sup>5</sup>

**Milk bottles - To sanitize:** Clean and rinse, then immerse for 5 min[utes] in a 200 ppm available chlorine solution prepared with cold or lukewarm water; drain; fill. If bottles are not filled promptly, rinse again with same strength bleach solution immediately before filling; drain thoroughly. Air dry. Ordinarily, 12 gal[lons] of this strength solution will sanitize 5,000 clean quart bottles. Keep this bleach solution clean and free from milk particles.

**Ice cream freezers<sup>26</sup> - To clean and sanitize:** After using, flush with warm water until water runs clear. Scrub or pressure-spray with solution prepared by thoroughly mixing 1 oz of [regular -and/or- powdered] detergent with each gal[lon] of 200 ppm available chlorine solution. Allow surface to remain visibly wet for -or- Let stand 2 min[utes]. Rinse thoroughly with clean, clear water; drain. Air dry. **Immediately before use, sanitize according to directions shown below.**<sup>5</sup>

**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FISH PONDS AND EQUIPMENT**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

**Fish Ponds:** Remove fish from ponds prior to treatment. Thoroughly mix 163 [fl] oz of this product to 10,000 gal[lons] of water to obtain 10 ppm available chlorine. Add more product to the water if the available chlorine level is below 1 ppm after 5 min[utes]. Return fish to pond after the available chlorine level reaches zero.

**Fish Pond Equipment:** Thoroughly clean all equipment prior to treatment. Thoroughly mix 3.5 [fl] oz of this product to 10 gal[lons] of water to obtain 200 ppm available chlorine. Soak porous equipment for one hour.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**MAINE LOBSTER PONDS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

Remove lobsters, seaweed, etc. from ponds prior to treatment. Drain the pond. Thoroughly mix 9,800 [fl] oz of this product to 10,000 gal[lons] of water to obtain 600 ppm available chlorine. Apply so that all barrows, gates, rocks and dams are treated with product. Permit high tide to fill the pond then close gates. Allow water to stand for 2 to 3 days until the available chlorine level reaches zero -or- 0. Open gates and allow 2 tidal cycles to flush the pond before returning lobsters to pond.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**CONDITIONING LIVE OYSTERS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

Thoroughly mix 9 [fl] oz of this product to 10,000 gal[lons] of water to 50-70°F to obtain 0.5 ppm available chlorine. Expose oysters to this solution for at least 15 min[utes], monitoring the available chlorine level so that it does not fall below 0.05 ppm. Repeat entire process if the available chlorine level drops below 0.05 ppm or the temperature falls below 50°F.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**CONTROL OF SCAVENGERS IN FISH HATCHERY PONDS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

Prepare a solution containing 200 ppm of available chlorine by mixing 3.5 [fl] oz of this product with 10 gal[lons] of water. Pour into drained pond potholes. Repeat if necessary. Do not put desirable fish back into refilled ponds until chlorine residual has dropped to 0 ppm, as determined by a chlorine test kit.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR EMERGENCY DISINFECTION OF DRINKING WATER (POTABLE)**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

**Emergency disinfection:**

When boiling of water for 1 min[ute] is not practical, water can be made potable by using this product. Prior to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the clarified contaminated water to a clean container and add 12 drops or 1/8 teaspoon -or- tsp of this product to 2 gal[lons] of water [(2 drops to 1 quart)]. Allow the treated water to stand for 30 min[utes]. Properly treated water will have a slight chlorine odor. If not, repeat dosage and allow the water to stand an additional 15 min[utes]. The treated water can then be made palatable by pouring it between clean containers several times.

For cloudy water, use 24 drops or 1/4 teaspoon -or- tsp of this product per 2 gal[lons] of water [(3 drops to 1 quart)]. If no chlorine odor is apparent after 30 min[utes], repeat dosage and wait an additional 15 min[utes].

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR DISINFECTION OF POTABLE DRINKING WATER SYSTEMS**  
**(Public and Individual Systems)**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

**Public system:**

Mix a ratio of this product to water to produce a 10 ppm available chlorine by weight. Begin feeding this solution with a hypochlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Interim Primary Drinking Water Regulations. Contact your local Health Department for further details.

**Individual systems:**

**1. Dug wells:** Upon completion of the casing (lining), wash the interior of the casing (lining) with a 100 ppm available chlorine solution using a stiff brush. After covering the well, pour the sanitizing solution into the well through both the pipesleeve opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing solution. Start pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Consult your local Health Department for further details.

**Individual water systems:**

**1. Drilled, driven and bored wells:** Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. Add 5 to 10 gal[lons] of clean, chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of pump cylinder with the sanitizer. Drop pipeline into well, start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Deep wells with high water levels may necessitate the use of special methods for introduction of the sanitizer into the well. Mix well [(2 drops to 1 quart)]. Consult your local Health Department for further details.

**2. Flowing artesian wells:** Artesian wells generally do not require disinfection. If analysis indicates persistent contamination, disinfect the well. Consult your local Health Department for further details.

**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR EMERGENCY DISINFECTION AFTER FLOODS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

**Wells:**

Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Backwash the well to increase yield and reduce turbidity, adding sufficient chlorinating solution to the backwash to produce a 10 ppm available chlorine residual, as determined by a chlorine test kit. After the turbidity has been reduced and the casing has been treated, add sufficient chlorinating solution to produce a 50 ppm available chlorine residual. Agitate the well water for several hours and take a representative water sample. Re-treat well if water samples are biologically unacceptable.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR EMERGENCY DISINFECTION AFTER FIRES**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

**Cross connections or emergency connections:**

Set up the hypochlorination or gravity feed equipment near the intake of the untreated water supply. Apply sufficient product to give a chlorine residual of at least 0.1 to 0.2 ppm at the point where the untreated supply enters the regular distribution system. Use a chlorine test kit.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR EMERGENCY DISINFECTION AFTER DROUGHTS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

**A. Supplementary water supplies:**

Set up the gravity or mechanical hypochlorite feeders on a supplementary line to dose the water to a minimum chlorine residual of 0.2 ppm after a 20 min[ute] contact time. Use a chlorine test kit.

**B. Water shipped in by tanks, tank cars, trucks, etc.:**

Thoroughly clean all containers and equipment. Spray a 500 ppm available chlorine solution and rinse with potable water after 5 min[utes]. During the filling of the containers, dose with sufficient amounts of this product to provide at least a 0.22 ppm chlorine residual. Use a chlorine test kit.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR EMERGENCY DISINFECTION AFTER MAIN BREAKS**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
Refer to container label for use precautions and further information.

**Mains:**

Before assembly of the repaired section, flush out mud and soil. Permit water flow of at least 2.5 f[ee]t per min[ute] to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR SPAS, HOT TUBS AND IMMERSION TANKS, ETC.**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
 Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
 Refer to container label for use precautions and further information.

**Spas/hot tubs:**

Using a dilution chart or formula, calculate an approximate amount of product per 1,000 gal[lons] of water to obtain a free available chlorine concentration of 5 ppm, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH to between 7.2 and 7.8. Some oils, lotions, fragrances, cleansers, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product.

- 1. Maintaining the water:** To maintain the water, apply the product solution over the surface to maintain a chlorine concentration of 5 ppm.
- 2. After each use:** Shock treat to control odor and algae, using the product at a rate of 1 1/4 cups to 500 gal[lons] of water.
- 3. Periods of disuse:** During periods of disuse, add product daily to maintain a 3 ppm chlorine concentration.
- 4.** Do not reenter pool until the chlorine level is between 1 to 3 ppm. Re-entry to treated spas/hot tubs is prohibited above 5 ppm due to risk of bodily harm.

Before draining a treated spa, hot tub, or immersion tank, contact your local sanitary sewer and storm drain authorities and follow their discharge instructions. Do not discharge treated water to any location that flows to a gutter, storm drain or natural water body unless discharge is allowed by state and local authorities.

**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**FOR WADING POOL DISINFECTION**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
 Labeling must be in possession of user at time of application. Read and follow label affixed to the container.  
 Refer to container label for use precautions and further information.

This product—a 8.25% sodium hypochlorite solution containing approximately 7.85% available chlorine by weight—is a convenient, economical source of chlorine for water treatment in swimming and wading pools. Also, because this product is a liquid with no insoluble particles, it is especially suitable for this use.

In chlorinating wading pools, use 3/4 [fl] oz per 100 gal[lons] of new water. Mix required amount of this product with 2 gal[lons] of water and scatter over surface of pool. Mix uniformly with pool water. Between fillings of pool, add 1 Tablespoon -or- Tbsp of this product per 100 gal[lons] of water each day. Empty small pools daily. (This product will not harm plastic pools.)

Do not reenter pool until the chlorine residual is between 1 to 3 ppm.

The chart below is a guide to the amount of this product to add to various sized round pools. Add three-fourths -or- 3/4 fluid ounce -or- [fl] oz of this product to every 100 gal[lons] of pool water.

Depth of Water	Pool Diameter 4 F[ee]t	Pool Diameter 6 F[ee]t	Pool Diameter 8 F[ee]t	Pool Diameter 10 F[ee]t	Pool Diameter 15 F[ee]t
6 in[ches]	2 teaspoons -or- tsp	3/4 [fl] oz	1 1/2 [fl] oz	2 1/4 [fl] oz	1/2 cup
1 f[oo]t	3/4 [fl] oz	1 1/2 [fl] oz	3 [fl] oz	1/2 cup	1 1/4 cups
2 f[ee]t	1 1/2 [fl] oz	3 [fl] oz	3/4 cup	1 1/4 cups	2 1/2 cups
3 f[ee]t	2 1/4 [fl] oz	1/2 cup	1 1/4 cups	1 2/3 cups	3 2/3 cups

## TABLE OF LIQUID MEASURES

3 tsp	=	1 Tbsp	=	1/2 [fl] ounce [-or- oz]	=	1/16 cup
16 Tbsp	=	8 [fl] ounces [-or- oz]	=	1 cup	=	1/2 pint

Stabilized pools must maintain a residual of 1 to 1.5 ppm available chlorine. Test the pH, available chlorine residual and alkalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers.

Before draining a treated wading pool, contact your local sanitary sewer and storm drain authorities and follow their discharge instructions. Do not discharge treated pool water to any location that flows to a gutter, storm drain or natural water body unless discharge is allowed by state and local authorities.

### PPD PUMA (EPA Reg. No. 67619-32) [REGISTERED AS *Insert Registered Alternate Brand Name*] FOR SWIMMING POOL DISINFECTION

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Labeling must be in possession of user at time of application. Read and follow label affixed to the container.

Refer to container label for use precautions and further information.

This product is a 8.25% sodium hypochlorite solution containing approximately 7.85% available chlorine by weight. The purity of its ingredients and the carefully supervised process of its manufacture make this product a quality source of chlorine for water treatment in swimming and wading pools. This product is especially suitable for use in chlorinators as it is a liquid and has no insoluble particles. This product is widely used as a source of chlorine for swimming pool sanitation and does not have any adverse effects on materials used in pool construction including swimming pool liners.

For each new filling of your pool, use following initial dosages of this product.

Swimming Pool Size in Gal[lons]	Initial Dosage of this product	Swimming Pool Size in Gal[lons]	Initial Dosage of this product
5,000	2 cups	20,000	10 cups
6,000	3 cups	25,000	13 cups
8,000	4 cups	30,000	15 cups
10,000	5 cups	35,000	17 cups
15,000	8 cups		

NOTE: 2 cups = 1 pint; 4 cups = 1 quart; 16 cups = 1 gal[lon]

To determine the volume of water in the pool when filled, figure 7 1/2 gal[lons] of water for each cubic foot -or- ft<sup>3</sup> of pool capacity. One quart of this product per 8,000 gal[lons] of water will supply approximately 2 ppm (parts per million) available chlorine, but this may dissipate rather rapidly in new water depending on the general sanitation conditions of the pool. Repeat dosage as needed to obtain 0.6 to 1 ppm available chlorine. [Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved.

In chlorinating a swimming pool, mix the required amount of this product with 10 parts water and feed this solution through a chlorinator into the main water supply line to the pool. Adjust the feeding rate so the required quantity of this product will be added uniformly throughout the filling of the pool; or, if the water is circulated through a filter, add the bleach throughout one complete circulation. If this product cannot be fed into the main water supply line, mix 3/4 cup of this product with 4 gal[lons] of water and scatter over a portion of the pool surface; repeat until the required amount of this product has been scattered over entire surface of the pool.

Check chlorine level in pool water at least daily with a pool testing kit and add this product as needed to maintain 0.6 to 1 ppm available chlorine. One pint of this product per 8,000 gal[lons] of water will supply approximately 1 ppm available chlorine. Frequency of application of this dosage will vary depending on number of people using the pool, weather conditions (sunlight exposure) and general cleanliness of the pool area. Maintain the chlorine level for acid-stabilized pools at 1 to 1.5 ppm available chlorine.

Re-entry to treated pools is prohibited above 4 ppm due to risk of bodily harm.

Every 7 days, or as necessary, superchlorinate the pool with 75-150 [fl] oz of product for each 10,000 gal[lons] of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Do not reenter pool until the chlorine residual is between 1 to 3 ppm.

The effectiveness of the chlorine is best when the pool water has a pH range of 7.2 to 7.6. The pH of the pool water must be checked daily using a pool pH testing kit and adjusted as necessary.

The regular use of this product, in the above proportions, in the swimming pool usually prevents the growth of algae in the water; however, if algae growth is causing the pool water to look cloudy and uninviting, it may be corrected by doubling the initial dosage of this product for a few treatments (2 quarts instead of 1 quart per 8,000 gal[lons] of new water). Add the additional product to the pool in the evening after the pool is out of use so the excess chlorine will be dissipated before the pool is used again.

If algae are growing on the bottom or walls of the pool, scrub pool with a solution of 45 [fl] oz of this product to 5 gal[lons] of water applying solution with a fiber brush. Scrub the pool while wet and then rinse off after algae growth has been removed. Flush all of the growth and dirty solution from the pool with clear water before the pool is refilled. Avoid skin contact with undiluted product; if such contact occurs, rinse immediately with water. When added, this product has no deleterious effects on the eyes, nasal passages, or skin of people using the pool and will have no effect on swimming apparel.

Before draining a treated pool, contact your local sanitary sewer and storm drain authorities and follow their discharge instructions. Do not discharge treated pool water to any location that flows to a gutter, storm drain or natural water body unless discharge is allowed by state and local authorities.

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**PPD PUMA (EPA Reg. No. 67619-32)**  
**[REGISTERED AS *Insert Registered Alternate Brand Name*]**  
**DILUTION TABLE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
 Labeling must be in possession of user at time of application. Read and follow label affixed to the container.

Refer to container label for use precautions and further information.

To obtain a solution with an approximate available chlorine level (parts per million), thoroughly mix the indicated amounts of bleach and water. Use chlorine test strips to adjust to the desired available chlorine levels. [Use the Dilution Table to make the desired dilution]. Use chlorine test strips to quantify the available chlorine. If the available chlorine is less than desired, add a small amount of product slowly and carefully to the dilution and determine the available chlorine with a fresh chlorine test strip. Repeat these steps, as needed, until the desired concentration of chlorine is achieved. Always test to ensure efficacy.

Approximate ppm Available Chlorine	Volume of this product	Volume of Water
0.5	9 [fl] oz	10,000 gal[lons]
5	2 drops	1 quart
	12 drops	2 gal[lons]
	1/2 tsp	10 gal[lons]
10	3 drops	1 quart
	1/4 tsp	2 gal[lons]
	24 drops	2 gal[lons]
	163 [fl] oz	10,000 gal[lons]
25	1/4 tsp	1 gal[lon]
	2 tsp	7 1/2 gal[lons]
50	1/2 tsp	1 gal[lon]
	3/4 gal[lon]	1,000 gal[lons]
100	1 tsp	1 gal[lon]
	1/8 cup (1 [fl] oz)	5 gal[lons]
	1/4 cup (2 [fl] oz)	10 gal[lons]
150	1 1/2 tsp	1 gal[lon]
200	2 tsp	1 gal[lon]
	2 Tbsp (1 [fl] oz)	3 gal[lons]
	1/4 cup (2 [fl] oz)	5 gal[lons]
	3.5 [fl] oz	10 gal[lons]
	3 gal[lons]	1,000 gal[lons]

Approximate ppm Available Chlorine	Volume of this product	Volume of Water
450	5 1/2 Tbsp (3 [fl] oz)	4 gal[lons]
500	1 part	150 parts
600	9,800 [fl] oz	10,000 gal[lons]
600	1 [fl] oz	1 gal[lon]
1,500	1 part	50 parts
1,800	3/4 cup (6 [fl] oz)	2 gal[lons]
2,400	1/2 cup (4 [fl] oz)	1 gal[lon]
	1 cup (8 [fl] oz)	2 gal[lons]
	1 1/2 cups (12 [fl] oz)	3 gal[lons]
	1 part	31 parts
3,600	3/4 cup (6 [fl] oz)	1 gal[lon]
6,000	1 part	12 parts
10,000	1 part	6 1/2 parts
11,500	1 part	5 1/2 parts
27,000	1 part	2 parts

**DILUTION TABLE: PPM** (Parts Per Million Available Chlorine).  
 Degrades with age and exposure to sunlight and heat. Check the level of available chlorine with a test kit.

1 1/2 tsp [of] this product + One -or- 1 Gal[lon] [of] Water = 150 ppm  
 1/3 [fl] oz [of] this product (2 tsp) + One -or- 1 Gal[lon] [of] Water = 200 ppm  
 4 [fl] oz [of] this product + One -or- 1 Gal[lon] [of] Water = 2,400 ppm

**Table of Liquid Measures:**

1 drop = 0.0017 [fl] oz  
 1 Tbsp = 3 tsp  
 1 [fl] oz = 2 Tbsp  
 1 cup = 8 [fl] oz  
 1 pint = 2 cups = 16 [fl] oz  
 1 quart = 4 cups = 2 pints = 32 [fl] oz  
 1 gal[lon] = 4 quarts = 8 pints = 16 cups = 128 [fl] oz

## Footnotes

- <sup>1</sup> v[ersu]s. -or- compared to [previous] Clorox® Regular-Bleach [EPA Reg. No. 5813-50]
- <sup>2</sup> Sanitizes: Staphylococcus aureus and Klebsiella pneumoniae
- <sup>3</sup> **must list at least one of the viruses** Influenza A Virus -and/or- Influenza B Virus, 2009-H1N1 Influenza A Virus -and/or- Avian Influenza A Virus [(H3N2)] -and/or- Avian influenza [Type A] Virus (H5N1) -and/or- Avian Influenza A (H7N9) Virus
- <sup>4</sup> 10 min[ute] contact time
- <sup>5</sup> For this **product/detergent** solution, use **hot** water if available
- <sup>6</sup> This strain of Enterococcus faecium has shown resistance to the following antibiotics: Ampicillin, Gentamicin
- <sup>7</sup> This strain of Klebsiella pneumoniae has shown resistance to the following antibiotics: Ampicillin, Ampicillin/Sulbactam, Cefazolin, Cefepime, Ceftazidime, Ceftriaxone, Gentamicin, Piperacillin/Tao, Trimethoprim/Sulfa
- <sup>8</sup> food-contact sanitization
- <sup>9</sup> **must list at least two of the viruses** Rhinovirus [Type 37] -and/or- Human Coronavirus -and/or- Adenovirus [Type 2] -and/or- †Respiratory Syncytial Virus [(RSV)]
- <sup>10</sup> Rhinovirus [Type 37] and Influenza A Virus
- <sup>11</sup> [Same number of loads as [previous] [96 [fl] oz -or- 182 [fl] oz] Clorox® Regular-Bleach]
- <sup>12</sup> Where this **product/detergent** solution is recommended for sanitizing poultry houses and equipment, use **hot** water (140 °F or above) if available
- <sup>13</sup> **BEFORE USE** - Rinse with a 200 ppm available chlorine sanitizing solution for 2 min[utes]; drain thoroughly
- <sup>14</sup> when used according to the disinfecting directions
- <sup>15</sup> Easton, G.D., M.E. Nagle, and D.L. Bailey, 1972. "Verticillium albo-atrum Carried by Certified Seed Potatoes into Washington and Control by Chemicals", American Potato Journal 49: 397-402
- <sup>16</sup> must preclean surface prior to disinfection
- <sup>17</sup> [in [a[n]] H[igh] E[fficiency] washer -or- machine
- <sup>18</sup> Splash[es] less and is easy -or- easier to pour
- <sup>19</sup> [vs. non-concentrated liquid bleach]
- <sup>20</sup> Pseudomonas aeruginosa
- <sup>21</sup> Streptococcus pneumoniae
- <sup>22</sup> Staphylococcus aureus, MRSA<sup>23</sup>
- <sup>23</sup> Methicillin-Resistant Staphylococcus aureus
- <sup>24</sup> 3 minute contact time
- <sup>25</sup> **insert organism(s) from List 3**
- <sup>26</sup> Allow refrigerator -and/or- freezer to come to room temperature
- <sup>27</sup> Turn off appliance & allow surfaces to come to room temperature prior to disinfecting
- <sup>28</sup> Refer to [List 3] Hard, Nonporous Surface Disinfection Organisms  
\*\*\*\* for laundry use -or- per load
- <sup>f</sup> [This product] removes 10 [of the most difficult] laundry stains: Tea, Coffee, [Red] Wine, [Blue]berry, Spaghetti -or- Tomato Sauce, Chocolate [Syrup], Mustard, Gravy, [Grape] Juice, [Ball Point] Ink
- <sup>o</sup> made of hard, nonporous materials
- <sup>P</sup> [on] hard, nonporous surfaces [of] [identified on this label]
- <sup>¥</sup> Follow [the] Special Instructions for Cleaning Prior to Disinfection [listed on label]
- [‡ Viruses]
- [‡‡ Bloodborne Pathogens]
- † Staphylococcus aureus, Salmonella enterica, Escherichia coli  
O157:H7 and Influenza A Virus
- ◇ Kills SARS-CoV-2 on hard, nonporous surfaces